



DEHUMIDIFIER

**2005**

# SERVICE MANUAL

Model **MJ-E26VX-A1**

Sold from 2005

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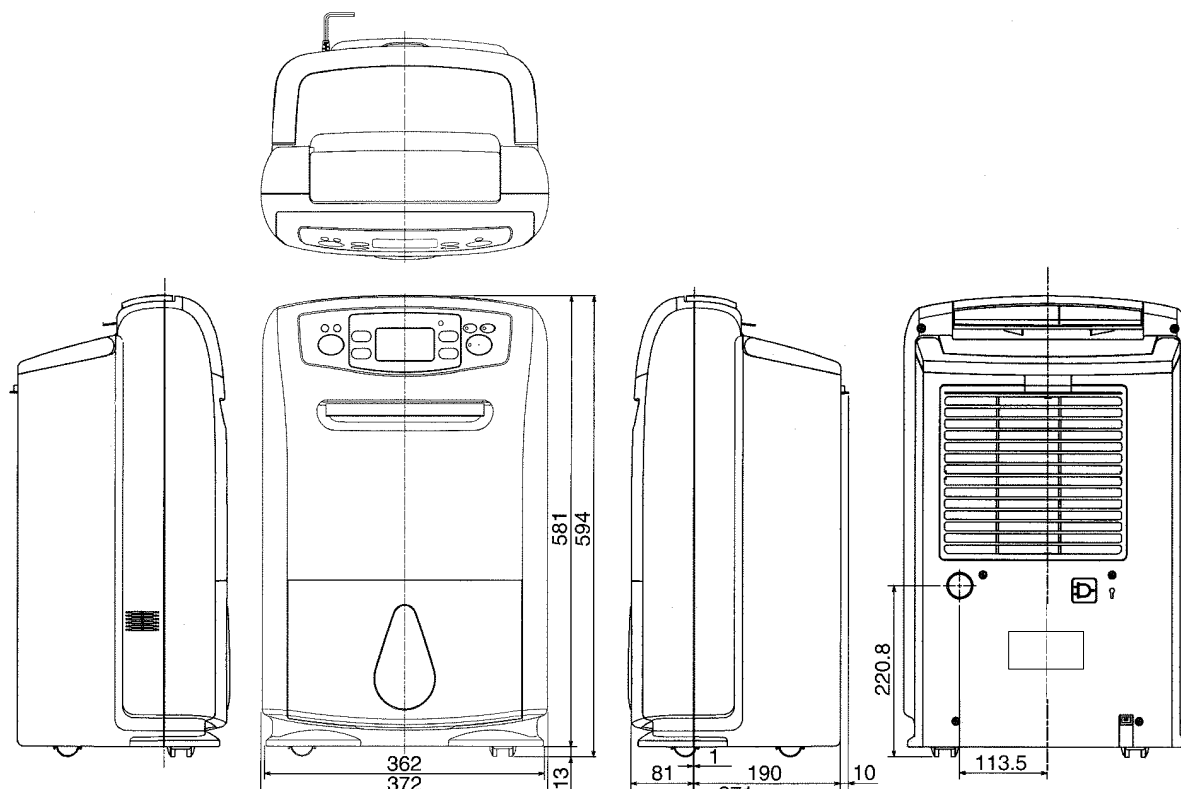
## 1. Product Specifications

Model		MJ-E26VX-A1																			
		50 Hz																			
Performance	Dehumidifying capacity <small>(27°C room temperature,60% relative humidity) (liters/day)</small>		26.0																		
	Operating noise levels(dB)	Low temp, laundry	47																		
		Auto-dehumidification, low	39																		
Electrical characteristics	Power supply (phases,V,Hz)		Single phase, 230-240V, 50Hz																		
	Power consumption (W)		415																		
	Operating current (A)		1.9																		
	Starting current (A)		8.5																		
Product performance	Color tone		White (W)																		
	Dimensions (H × W × D mm)		594 × 372 × 281																		
	Weight (kg)		15.5																		
	Coolant quantity (g)		HFC - 134a, 275g																		
	Evaporator		Slit fin																		
	Condenser		Slit fin																		
	Compressor	Compressor protection		Thermal overcurrent relay																	
		Model		YB691 VTE (rotary)																	
		Output (W)		240																	
		Winding resistance (Ω)		Primary: 16.9 , subsidiary: 30																	
	Blower	Blower protection		With temperature fuse																	
		Type		Sirocco fan																	
		Output (W)		20																	
		Flow rate selection		4																	
		Speed (rpm)		Auto- dehumidification	603 or 733		Laundry	863 [882]*		High	863		Low	603		Low temp	863 [882]*		Mildew guard	863	
		Flow rate (m³/min)			3.3 or 2.6			4.0 [4.1]*			4.0			2.6			4.0 [4.1]*			4.0	
	Operating room temperature (reference) (°C)		1 ~ 35 (°C)																		
	Defrosting method		Hot gas type																		
	Humidity control		Built-in humidity sensor																		
	Tank full protection		Reed switch (automatic)																		
	Tank capacity (liters)		Auto-stopper tripped with about 5.0 liters of water																		
	Continuous drainage		Commercial hose (inside diameter 15 mm)																		
	Operation modes		AUTO, EASY DEHUMIDIFYING, LAUNDRY, MILDEW GUARD, HIGH, LOW, LOW TEMP, AIR PURIFIER, MILDEW GUARD ELITE																		
	Timer		On/Off timer (1-9h)																		
	Air cleaning performance		Yes																		
	Plug socket rating		7.5A																		

● The operating noise levels indicated are typical values measured in our anechoic room.

\* The brackets [ ] enclose values measured at a room temperature of about 15°C or lower.

## 2. Outer Dimensions



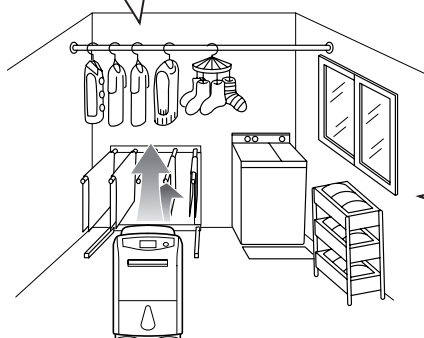
## 3. Tips on Dehumidifying

### Drain the water tank before use

### Refrain from opening doors/windows during operation

### Drying laundry indoors

- Thoroughly spin-dry the laundry and hang so there are no wrinkles.
- Direct the louvres at the laundry.
- Space laundry to improve airflow.

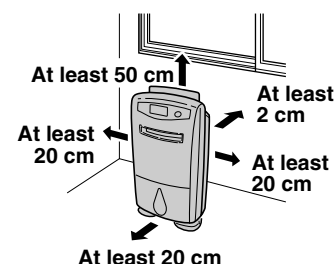


**Maintain room temperature above 16°C with a heater**

- Drying times will vary depending on the nature of the laundry and the room temperature.
- The airflow is strongest to the top right of the unit.

### Installing your dehumidifier

Make sure to leave some space around the unit.

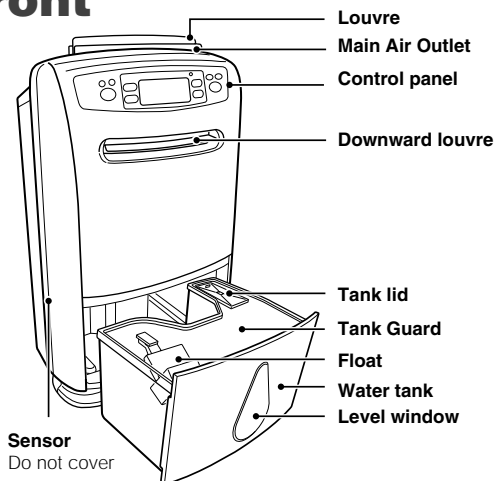


### Operating noise

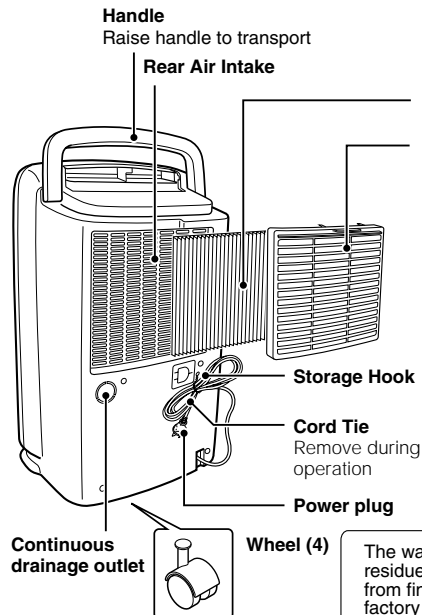
Place the unit on top of a mat. This reduces vibration and noise. It also prevents leaving depressions on carpets.

## 4. External View, Parts and Display Section

### Front



### Back



**Washable photocatalytic filter**  
(hereafter: photocatalytic filter)  
Supplied with unit. Set before use.

**Pre-filter**  
The pre-filter is made from two layers: a blue air filter and a white particle filter. These layers cannot be separated.  
Air filter performance testing facility  
Japan Spinners Inspecting Foundation (tested under JIS L 1902 standards)

The water tank may contain water residue at time of purchase. This is from final product testing at the factory and is not due to a defect.

### What is a washable photocatalytic filter?

The washable photocatalytic filter has a two-layer construction consisting of a white particle filter and a blue air-freshener filter.  
<Particle filter>

The fine particle filter removes pollen\* and dust particles.

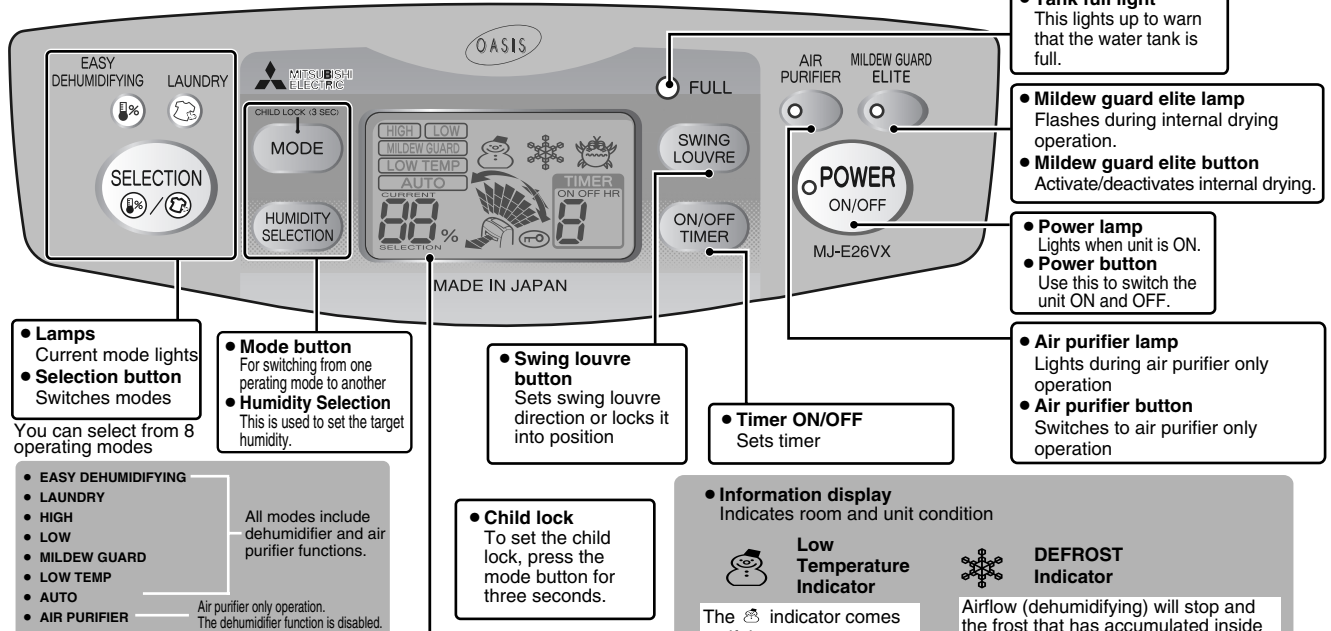
<Air-freshener Filter>

The special air-freshening agent contained in the fibres of the air-freshener filter absorbs odorants such as ammonia. The odor is broken down by photocatalysis renewing the air-freshening properties.

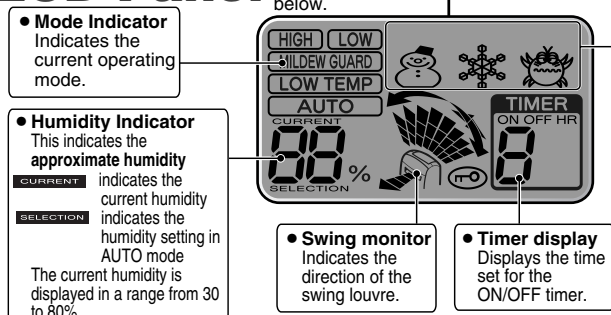
As the filter's particle and air-freshening properties are renewed by simply soaking and leaving it to dry in the sun, the air purifier can be used continuously over a long time. Cigarette smoke and toxins found in smoke, such as carbon monoxide, cannot be removed with this filter.

\* Diameter of pollen: approx. 10-100µm

## Control Panel



## LCD Panel

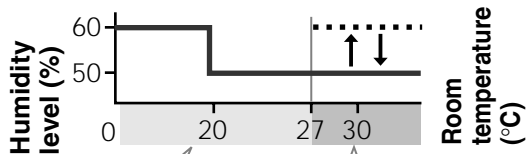


## Modes

### ● EASY DEHUMIDIFYING

The unit operates intermittently controlling the airflow to remove the damp feeling in the air. (There is no need to set the humidity level)  
When the room temperature is high, the blower operates to decrease the damp feeling.

The airflow or louvre operation may stop according to the humidity level.



Room temperature is below 27°C - the unit automatically sets the humidity level according to the temperature.

Room temperature is above 27°C - the unit lowers the humidity level to 50%, then activates the blower. The dehumidifier is reactivated when humidity rises to 60%.

### ● LAUNDRY

The unit operates for 12 hours and automatically switches off.

#### Information

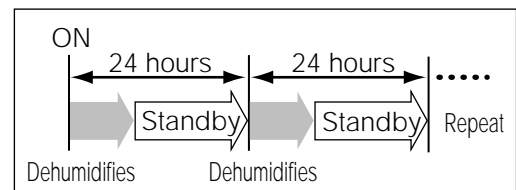
- **Drain the tank before use.**  
The unit may stop before the washing dries because of a full tank.
- **Do not use in conjunction with the OFF timer.**  
The timer may turn the unit off before the washing dries.
- **The following conditions prevent clothes from drying well:**  
Room temperature below 15°C, large volume of laundry; laundry not spaced well; clothes of thick fabric and spacious room.

- **HIGH** The dehumidifier operates regardless of the humidity level. Airflow is strong.

- **LOW** The dehumidifier operates regardless of the humidity level. Airflow is weak.


- **MILDEW GUARD** The unit lowers humidity levels automatically once a day, suppressing mildew growth.

- The unit operates intermittently for 2-4 hours a day (24 hours).
- The operating time varies depending on the humidity.  
The unit continues to operate when the humidity does not decrease.
  - Humidity 40%→Approx. 2 hours
  - Humidity 50%→Approx. 4 hours



- #### Information
- Refrain from turning on ventilation fans or opening windows or doors as this lowers performance.
  - Mildew growth may still occur due to the fungus type and conditions of the room.
    - E.g. Rooms that contain excessive condensation, bathrooms, and places with bad airflow (insides of closets and behind furniture).
  - This mode does not remove existing mildew.
  - Do not use in conjunction with OFF Timer mode. Effects may not be achieved.

### ● LOW TEMP

The unit operates continuously and automatically by controlling airflow according to room temperature. The air flow is strongest below 15°C. The use of LOW TEMP mode is recommended when the Low temperature indicator  is lit.

**Information** When the temperature is low, condensation may still form on windows exposed to the outside air even when LOW TEMP mode is operating

### How is mildew growth suppressed?

Mildew is unable to produce new spores (similar to plant seeds) if dried as mycelia. The Mildew Guard feature applies this principle (However, the spores themselves are resilient to dry conditions.).

"Identification of Aspergillus and Penicillium"

<Research paper by Dr. K. Abe of the Environmental Biology Research Center>

## • AUTO

The unit maintains the humidity level by automatically controlling airflow and operating intermittently as necessary. All you have to do is set the humidity level.

- The unit turns off when current humidity drops below the set humidity level (airflow and louvre stop). The unit restarts when humidity rises above the set level.
- The unit operates for 6 minutes continuously regardless of the humidity level immediately after turning the power on.

Information

Frequent use of exits and room size/conditions may cause the humidity to not reach the set level.

### <To view set humidity level/ To set humidity level>



Press



Press again

- Pressing the button once displays the set humidity level with the **SELECTION** indicator. After 3 seconds, the display returns to the current humidity display.



- Pressing HUMIDITY SELECTION while **SELECTION** is displayed sets the humidity level. Each time the button is pressed, the humidity setting changes.

70 → 65 → 60 → 55 → 50

## • AIR PURIFIER

The unit cleans the air by passing it through the pre-filter and photocatalytic filter. The dehumidifying function is disabled.

Information

- The air passes through the pre-filter and photocatalytic filter in all modes, cleaning the air even if the air purifier lamp is not lit.
- Cigarette smoke and toxins found in smoke, such as carbon monoxide, cannot be removed with these filters.

## • Swing louvre function (how to read the swing monitor)

The louvre can be made to swing. Select from the 5 possible settings to suit the purpose.




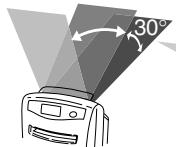





Press

- Starts swing operation.
- The swing monitor is displayed.

The swing operation stops when the power cord is unplugged.

This indicates the range of louvre swing.  
(The louvre and monitor do not move in synchronization.)

Objective	Recommended swing setting	Explanations of the swing modes
To stop the louvre at the desired angle	<ul style="list-style-type: none"> <li>• Stop swing operation</li> </ul> 	<p>The louvre stops in a vertical position. The swing monitor turns off.</p> <p><b>To change the louvre to a desired angle, wait until the louvre stops, then adjust by hand.</b></p>
To cover the entire room	<ul style="list-style-type: none"> <li>• WIDE</li> </ul> 	<p>The louvre swings from the <b>UPWARD</b> position through to the <b>REAR</b> position in order to send air to all corners of the room.</p>
For drying clothes, etc.	<ul style="list-style-type: none"> <li>• UPWARD</li> </ul> 	<p>Swing speed is automatically controlled to send air at washing from the all angles.</p>  <p>The louvre moves slowly through the last 30° of the swing, as the time taken to traverse the rear arc is shorter than that for the upward arc when moving at a constant speed.</p>
Convenient for drying carpets or beds.	<ul style="list-style-type: none"> <li>• LOW AIR OUTLET</li> </ul> 	<p><b>The swing function is not available. Adjust the angle manually (from three possible positions).</b></p> <p>When using the low air outlet, do not close the louvre, as it needs to open slightly to make directional adjustments.</p>  <p>Move the louvre from the sides.</p>
For directing air into a closet	<ul style="list-style-type: none"> <li>• REAR</li> </ul> 	<p>Depending on the angle of the louvre, some air may blow out of the low air outlet.</p>

Information

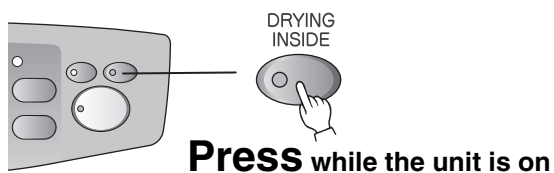
- The level of noise emitted from the unit varies according to the angle of the air-flow.
- The louvre may stop up to a maximum of 8 seconds to correct its position, after which it will start moving again.
- If the louvre is knocked out of the desired angle, readjust by following the above steps.

## ● To dry the inside

The inside of the unit can be dried to suppress mildew growth on the cooler.  
On days the dehumidifier is used, internal drying (drying the inside) is recommended.

### Automatic operation

To activate internal drying after every use.



- **Internal drying standby**  
(Mildew guard elite lamp lit)

#### Internal drying starts when operation ends

When the unit is turned off, LAUNDRY mode ends, or the OFF timer ends.

- **Internal drying starts**  
The mildew guard elite lamp flashes, the humidity indicator turns off, and the louvre stops in the vertical position.

Internal drying mode

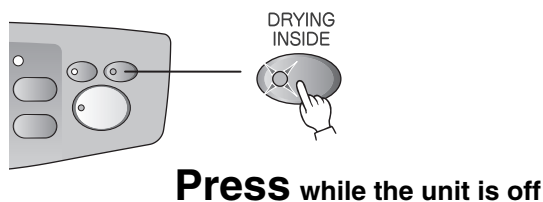
- **Internal drying ends**  
The mildew guard elite lamp turns off and the louvres shut.

#### <To deactivate automatic operation>

Press the MILDEW GUARD ELITE button while the unit is on (the mildew guard elite lamp turns off)

### Manual operation

To activate internal drying by pressing a button.



- **Internal drying starts**  
The mildew guard elite lamp flashes, the humidity indicator turns off, and the louvre stops in the vertical position.

Internal drying mode

- **Internal drying ends**  
Mildew guard elite lamp turns off and the louvres shut.

### To abort internal drying

**Press the mildew guard elite button while the unit is performing internal drying (the mildew guard elite lamp turns off)**

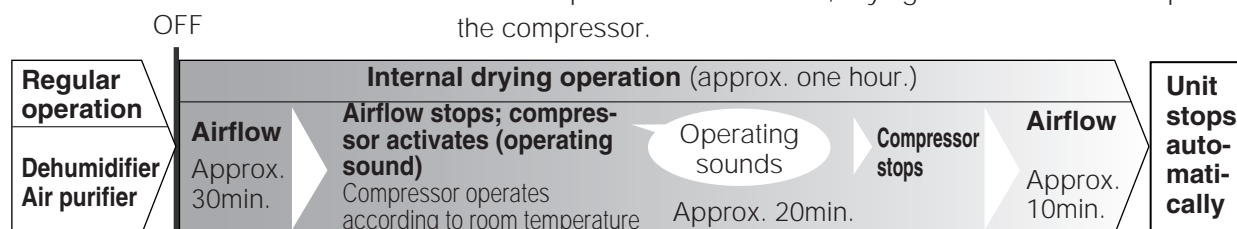
Press the power button to abort internal drying, and resume normal operation.

#### Information

- Turning off at the wall deactivates automatic operation.
- This function does not remove existing mildew. Also, aborting internal drying may cause the benefits to diminish.
- Do not close the louvres while internal drying as this causes noise.
- The moisture expelled from inside the unit may cause the humidity level of the room to rise.
- The air leaving the unit may appear white depending on the humidity or temperature of the room.
- The moisture expelled from inside the unit may smell due to odorants\* that were not caught by the filter dissolving in the water.
- \* The photocatalytic filter is mainly for absorbing ammonia.
- The OFF timer cannot be set during internal drying.

#### <Internal drying operation>

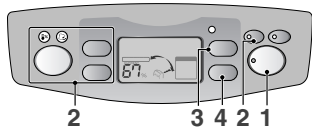
This operation takes approximately one hour. However, when the room temperature is below 1°C, drying time is shortened to protect the compressor.



## [Timer Operation]

### OFF timer operation

The OFF timer can be set for 1 to 9 hours.  
Set the timer when the power is switched on.



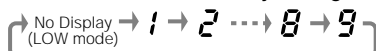
#### To set

- 1** Switch the power on.
- 2** Select operating mode.  
Select desired operating mode.
- 3** Change the louver swing direction.  
Select the desired setting.
- 4** Set the operating time.



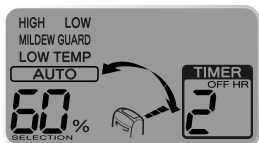
#### Press

- When pressed once the figure [ / ] and [OFF] appear.
- Each subsequent press changes the display in order from 1 to 9 hours.  
(Hold the button to run automatically through the numbers.)



#### → The OFF timer is set.

The following is an example of a display indicating AUTO dehumidifying (set to 60%), swing set to WIDE and the OFF timer set for 2 hours.



- The time remaining until the unit switches itself off is indicated in increments of one hour with a flashing numeral.

- When the set time is reached, the unit switches itself off and the louver closes automatically.
- Internal drying will commence if it has been activated.

#### To cancel the OFF timer

<When you want to turn the unit off>

Press the POWER button. (Power off)



#### Press

- The OFF Timer is cancelled.
- <When you want to disable the Timer OFF mode, and continue operation>

Keep pressed until the remaining time display disappears to return to continuous operation.



#### Press

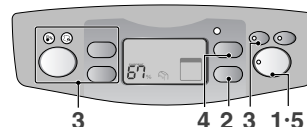
- The OFF Timer is cancelled.

#### Information

- Empty the water tank before operating. The unit stops and the Tank full lamp lights if the tank becomes full during operation.
- The OFF timer and ON timer cannot be set at the same time.
- Do not use timer OFF mode in conjunction with LAUNDRY or MILDEW GUARD.
- The OFF timer cannot be set during internal drying.

### ON timer operation

The ON timer can be set for 1 to 9 hours.  
Set the timer when the power is switched off.



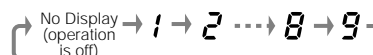
#### To set

- 1** Switch the power off.
- 2** Set the time you wish the unit to turn on.



#### Press

- Press once. The Power lamp, Mode indicator, and a [ / ] on the digital display flash. The [ON] indicator lights.
- Each subsequent press changes the display in order from 1 to 9 hours.  
(Hold the button to run automatically through the numbers.)



#### 3

#### Select operating mode.

Select desired operating mode.  
Set internal drying (auto) as desired.

#### 4

#### Change the louver swing direction.

Select the desired setting.

#### 5

#### Confirm the operating start time.



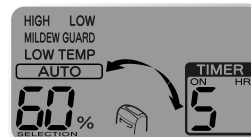
#### Press

- Power lamp and Time display light.

#### → The ON timer is set.

The unit informs you if you forget to press the Power button by making the Time display and Mode indicator blink and sounding an alarm for 1 minute.

The following is an example of a display indicating AUTO dehumidifying (set to 60%), swing set to WIDE and the ON timer set for 5 hours.



- The time remaining until the unit switches itself on is indicated in increments of one hour.

- When the set time is reached, the unit switches itself on.

#### To cancel the ON timer

Press the Power button. (Power off)



#### Press

- The ON timer is cancelled.

#### Information

- Internal drying is deactivated when the ON timer is set during internal drying operations.
- The ON timer function is not operable using a commercially-available timer plug outlet.

## 5. Technical points

### 5.1 The technical points of the new products

#### 1) Internal drying

During dehumidification, moisture accumulates on the heat exchanger. If left, this can lead to mildew growth, which is circulated around the room with the air discharge. Internal drying starts automatically after operation, and dries any moisture inside the unit.

#### 2) Powerful 26-litre/day dehumidifying

The uncomfortable damp feeling caused by humidity is something that needs to be removed quickly. Mildew can grow and damage the home or clothing when closets, dressing rooms, shoe cabinets, and other spaces where humidity is prone to collect are not dehumidified. A single high-capacity unit is effective in dehumidifying and drying various locations throughout the home, quickly moving from one point to the next.

#### 3) Room humidity and sensible temperature comfortably controlled

The EASY DEHUMIDIFYING mode controls humidity according to room temperature. If the room temperature rises during dehumidification, use CIRCULATION mode (\*1) to lower the sensible temperature.

\*1 The automatic dehumidification and blower modes operate alternately controlling the sensible temperature and humidity to a comfortable level (50%–60%).

#### 4) Washable photocatalytic filter

The photocatalytic deodorizing filter and particle filter are integrated.

This filter collects ammonia, the base for household smells, as well as dust, fungus spores, and pollen. It is easy to clean, meaning longer lasting performance.

## 5.2 Operation and Performance

### Working temperature

Dehumidification is possible with a room temperature of 1 – 35°C. If the room temperature exceeds 35°C, however, the temperature inside the unit will increase; therefore, the protective device may activate and halt operation in some cases. For this reason, the louvres should be aimed upward.

- If the room temperature is lower than 1°C, there is danger of the removed water freezing, making dehumidification impossible, so the fan will start operating.

### Wait for 3 minutes before dehumidifying

The dehumidifier will not operate for 3 minutes when the unit is turned on immediately after being turned off or plugged in. (In order to protect the compressor.)

When dehumidifying begins, the operational noise increases. This is not a malfunction.

### Defrosting

The unit may display ❄ during operation and stop air flow, followed by a change in the operating noise. The unit has stopped the airflow, and is melting internal frost into the water tank. The unit will resume automatically when the defrost operation completes.

This operation will be performed automatically when the room temperature is approximately 15°C or lower. (When humidity is high, this will occur approximately once every 40 minutes for 5 – 10 minutes.)

### Room temperature may rise 2-4°C during operation

The dehumidifier does not have a cooler function. Due to heat produced during operation, the room temperature may rise 2-4°C. As a result, the unit may blow warm air, but this is not due to a malfunction. During winter, the air may not feel warm as the temperature is below body temperature.

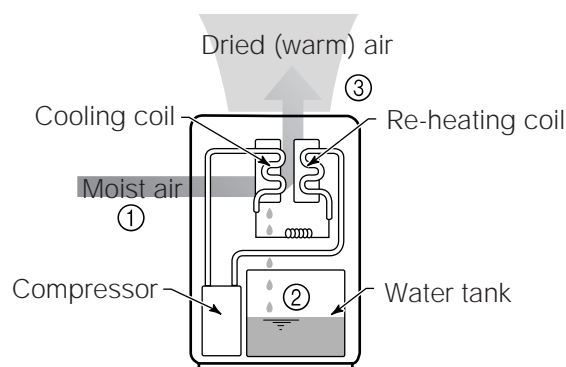
### How does the dehumidifier work?

If you pour cold water into a cup, the air around it becomes cold, causing water droplets to form on the surface of the cup.

The dehumidifier takes advantage of this phenomenon to remove moisture from the air.

- ① The unit draws air from the room, cools it with its cooling coil, causing the moisture to transform into water droplets.
- ② The water droplets fall into the water tank.
- ③ **The dehumidified air is reheated by the heating coil, and then discharged.**

The humidity of the room is thus reduced by repeating steps ①, ②, and ③.

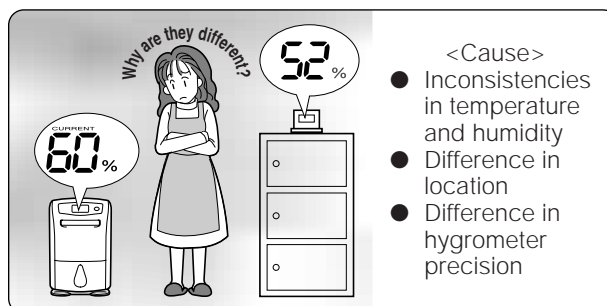


### The humidity reading on the unit may differ from a hygrometer in the same room

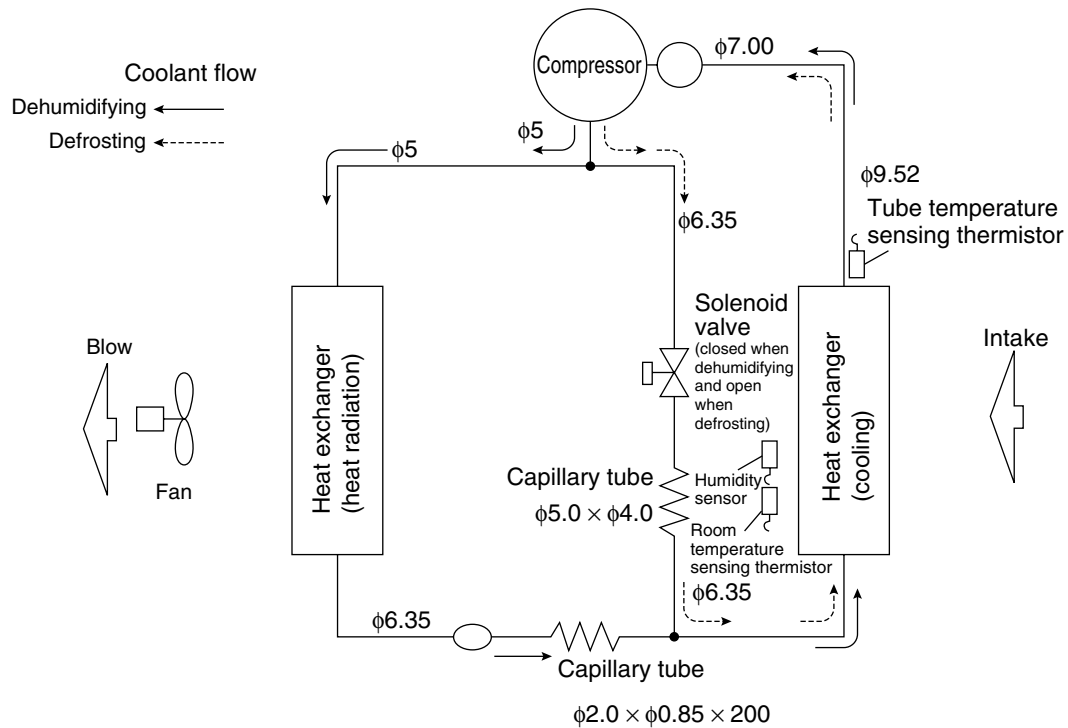
**Even in the same room, temperature and humidity levels may differ from place to place. If the hygrometer and the unit are in different parts of the room, the humidity levels are prone to differ.**

**Moreover, humidity levels differ between places that have good and no airflow.**

Use the reading on the unit as an estimate.



### 5.3 Coolant Circuit



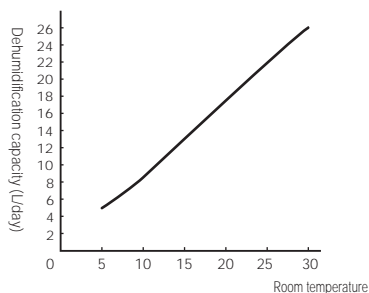
### 5.4 Performance curve

**When the temperature and humidity are low, the amount of water collected is decreased.**

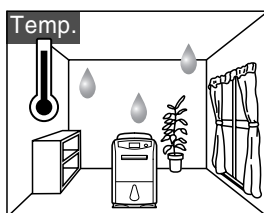
In winter, because the temperature is lower than in summer, the effect of the dehumidifier is greatly reduced as shown in the graph below.

Although less water collects in the tank, this is not a malfunction.

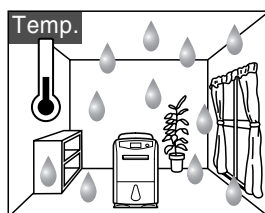
\* If the temperature is low, but the humidity is high due to snow or rain, operating the unit in LOW TEMP mode will yield better results than in HIGH mode.



- The values shown on the graph were measured at constant temperature and humidity and do not reflect values obtained in actual usage conditions.



Summer (humidity)



Winter (dampness)

## 6. Maintenance

### Maintenance

Do not use detergents, cleaning agents for heat exchange equipment, abrasive powders, chemically treated dusters, gasoline, benzene, thinners or other solvents, as they can damage the unit or the water tank, which may result in leakage.

#### Cleaning

##### Water tank • Main unit

Wipe with a soft cloth.



##### Floating element

Do not remove or dismantle.

- The unit draws in dust present in the air, and this may cause the tank to **gradually become dirty**. If the dirt does not come off easily, wash with cold or warm water, then wipe with a soft, dry cloth.
- Mildew may form in the tank unless kept clean.

#### Once every two weeks

##### Pre-filter

Debris clogging the pre-filter reduces the effectiveness of the dehumidifier.  
Clean once every 2 weeks.

- 1 Remove the pre-filter.
- 2 Remove the photocatalytic filter.
- 3 Clean the pre-filter.



Remove grit with vacuum cleaner

Hose with lukewarm water when excessively soiled.  
Dry well.

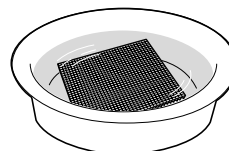
- 4 Fit the photocatalytic filter.
- 5 Attach the pre-filter.

#### Once every three months

##### Photocatalytic filter

**Soaking the filter in water**, and leaving it to dry in the sun renews the performance and prolongs service life. Perform this every three months.

- 1 Remove the pre-filter.
- 2 Remove the photocatalytic filter.
- 3 Soak the photocatalytic filter in water.



Soak in cool to lukewarm water for 30 minutes.

Do not use detergent or hot water.  
Also, do not brush or rub while soaking as this may damage the filter.

- Stains may remain on the filter, but should not affect performance.
- The filter can be soaked for a total of eight times. After that, replace with a new filter.

##### 4 Dry the photocatalytic filter.



Dry well in the sun  
(The performance of the filter renews with soaking, and the photocatalytic effect of the sunlight removes remaining odorants)

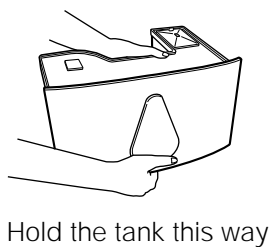
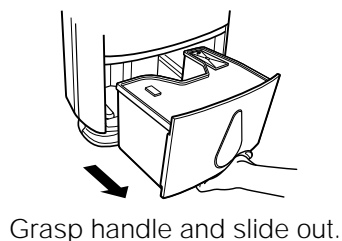
Do not hang with pegs as this may damage the filter.  
Do not use the filter while wet.

- 5 Fit the photocatalytic filter.
- 6 Attach the pre-filter.

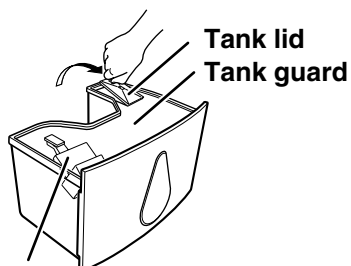
## Removing Water from the Tank

The unit automatically shuts down and lights the Tank full lamp when the tank (approximately 5L) is full. Empty the tank.

### 1 Remove the water tank.

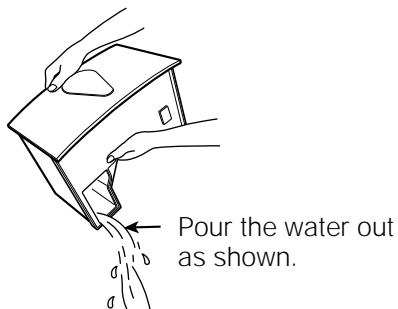


### 2 Remove the tank lid, and empty.

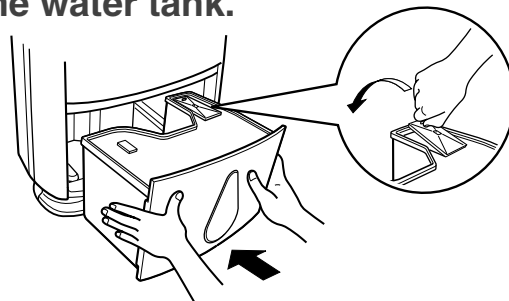


#### Floating element

Do not remove or dismantle the float.



### 3 Reattach the tank lid and replace the water tank.



Check the lid and guard are secure. Slide the tank in with both hands (you should hear a beep.)

- Secure the lid and guard properly or else the tank may become stuck.
- If the tank is not installed correctly, the tank full light will come on, and the unit will not operate.

#### Note

Do not remove or dismantle the floating element in the tank. If it is removed, the unit cannot detect when the tank is full, and this could result in leakage.

## Replacement Parts

The photocatalytic filter becomes depleted over time.

Replace them when necessary.

### Replacing the photocatalytic filter

Although the photocatalytic filter lasts roughly 2 years, replace it when:

- You have soaked the filter 8 times.
- The photocatalytic filter has turned brown due to cigarette smoke or black with dust.

Filter life differs on usage and environmental conditions.

**Remove the pre-filter and replace the photocatalytic filter.**

#### Parts sold separately

##### Photocatalytic filter for replacement

- Type: MJPR-18TXFT
- Type code: 5C5 816

For these items contact your nearest Mitsubishi Electric dealer.

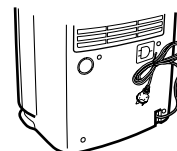
## Storage

After switching the unit off, leave for one day until any water inside has had time to run off, then carry out the following steps.

### 1 Perform drying inside

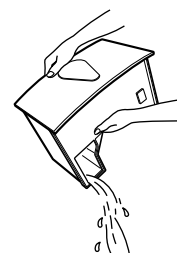
Performing internal drying to prevent mildew growth is recommended.

### 2 Bundle power cord.



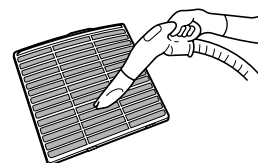
### 3 Remove the drainage water.

Empty the water tank and wipe away any remaining drops of water.



### 4 Clean the pre-filter.

Remove grit with vacuum cleaner



### 5 Store the unit.

- When you are sure that all parts of the unit are dry, cover it with a cloth to keep it from dust.
- Store the unit in an upright position in a place not exposed to direct sunlight.

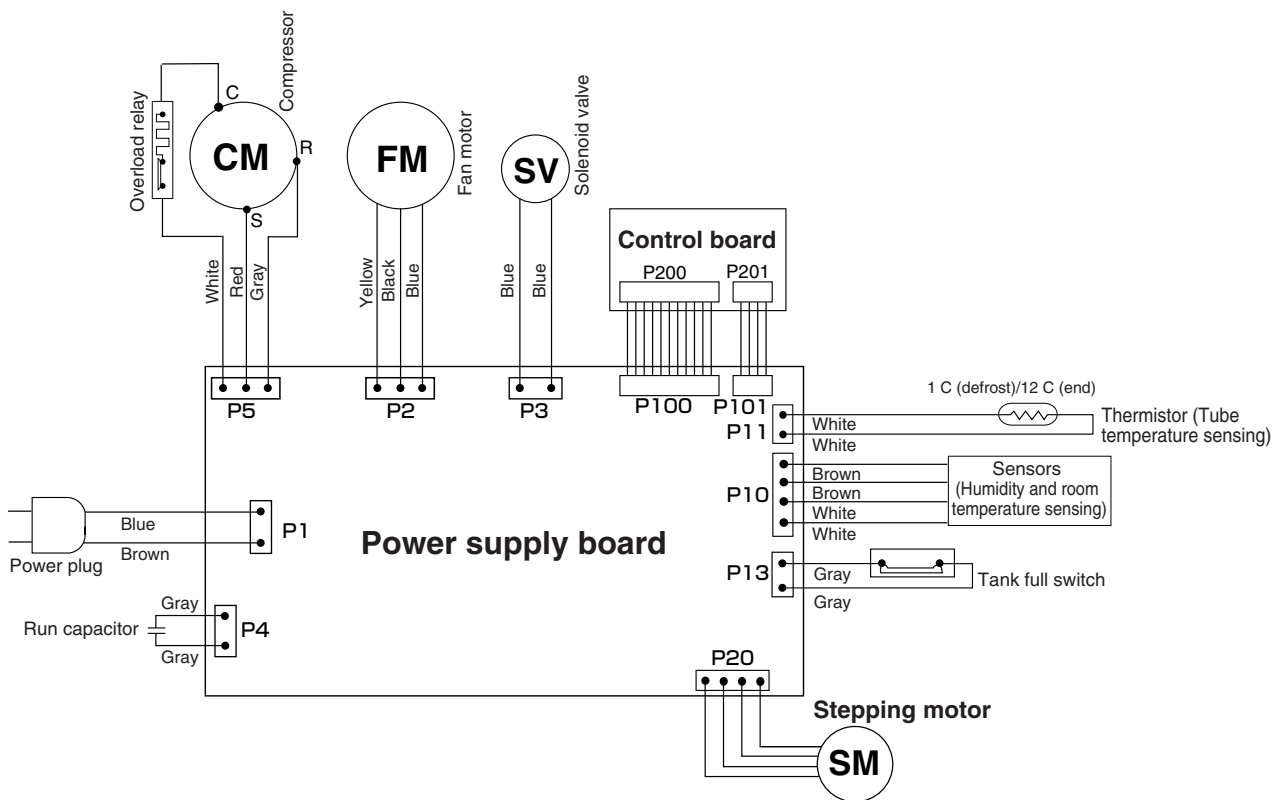
## When disposing the unit

Dispose according to the garbage regulations in your district.

- Photocatalytic filter  
Material: PET and PS
- Unit  
Do not disassemble. Dispose according to the garbage regulations in your district.

## 7. Wiring Diagram and Block Diagram

### 7.1 Wiring Diagram



#### Safety Devices

- (1) Current fuse .....Overcurrent flow caused by degraded electrical parts turns off the power.  
Current setting: 2A
- (2) Motor protector .....Room temperatures exceeding about 40°C shut down the compressor.  
(Overload relay) The compressor also shuts down when it is locked or otherwise malfunctions, with current flow exceeding 2.5A.
- (3) Control circuitry .....The room temperature thermistor, on sensing a room temperature below about 0°C, shuts down the compressor.
- (4) Thermal fuse .....The blower shuts down when it is locked or otherwise malfunctions, with its temperature exceeding 134°C.

## 7.2 Function List

		Operation off	Operation mode														
			Dehumidifying operation							Air purifier	Mildew guard elite	Tank full	Defrost	Off timer on	On timer being set	On timer counting	Child lock
			Auto	High	Low	Mildew guard	Low Temp	Easy dehumidifying	Laundry								
Compressor		OFF	—	ON	ON	—	ON	—	—	OFF	—	OFF	ON	—	OFF	OFF	—
Blower		OFF	—	ON	ON	—	ON	—	—	ON	—	OFF	OFF	—	OFF	OFF	—
Solenoid valve		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	—	OFF	ON	—	OFF	OFF	—
Swing louvre		Closed	▲	△	△	▲	△	▲	▲	▲	Upward	OFF	OFF	▲	Closed	Closed	—
LED indicator	Power	×	○	○	○	○	○	○	○	○	×	×	○	○	◎	○	—
	Lamps	×	×	×	×	×	×	Dehu- midifying	Laundry	×	×	×	□	□	■	□	—
	Air Purifier	×	×	×	×	×	×	×	×	×	×	×	×	□	■	□	—
	Tank full	×	×	×	×	×	×	×	×	○	×	○	×	×	×	×	—
	Mildew guard elite	×	×	×	×	×	×	×	×	×	◎	×	×	×	×	×	—
LCD indicator	Humidity (set/current)	○	○	○	○	○	○	○	○	○	×	○	○	○	○	○	—
	Operation mode	×	AUTO	HIGH	LOW	Mildew guard	Low Temp	×	×	×	×	×	□	□	■	□	—
	Swing area	×	△	△	△	△	△	△	△	△	×	×	△	△	△	△	—
	Swing monitor	×	▲	▲	▲	▲	▲	▲	▲	▲	×	×	×	▲	×	×	—
	On/off timer	×	×	×	×	×	×	×	×	×	×	×	×	○ Off	◎ On	○ On	—
	Mildew guard	—	×	×	×	×	×	×	×	×	×	×	×	×	×	×	—
	Defrost	×	×	×	×	×	×	×	×	×	×	×	○	×	×	×	—
	Low temp	×	☆	☆	☆	☆	☆	☆	☆	☆	×	×	☆	☆	☆	☆	—
	Child lock	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	○
Button	Power	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×
	Selection	×	○	○	○	○	○	○	○	○	×	×	○	○	○	○	×
	Mode	×	○	○	○	○	○	○	○	○	×	×	○	○	○	○	×
	Humidity Selection	×	○	○	○	○	○	○	○	○	×	×	○	○	○	○	×
	Air purifier	×	○	○	○	○	○	○	○	○	×	×	○	○	○	○	×
	Swing louvre	×	○	○	○	○	○	○	○	○	×	×	○	○	○	○	×
	On/off timer	○	○	○	○	○	○	○	○	○	×	○	○	○	○	○	×
	Mildew guard elite	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×
	Child lock	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

Note ○ : Display lamp/Operable  
 ◎ : Timer – flashes when on  
 × : Off/stopped/inoperable  
 △ : Operable only when swing on/lit  
 ▲ : Operable only when swing on and blower fan rotates

□ : LCD lights at each operation mode  
 ■ : LCD flashes at each operation mode  
 ☆ : Lights at room temperatures of 14°C or under  
 — : Varies by conditions.  
 ON : ON LED lit or flashing  
 OFF : OFF LED lit

## <Operation Control>

### ① Specifications shared at all operation modes

The compressor and blower fan will operate for about 6 minutes after turning on the operation switch or activating the compressor, regardless of humidity or temperature levels.

### ② Humidity set operation

Compressor and blower fan operation will switch by current humidity and set temperature.

	Decline in current humidity	Rise in current humidity	Fan temperature table			Compressor
			← 27°C	29°C → ← 34°C	36°C → ←	
Current humidity - Set humidity	↓	↑ +5%	Rank 3	Rank 3	Rank 5	ON
	↓ +3%	↑ +1%	Rank 1	Rank 2	Rank 5	ON
	↓ -1%	↑	Rank 0	Rank 0	Rank 0	OFF

### ③ High, Low, Low Temp, Mildew Guard, Air Purifier

	Compressor	Fan temperature table			
		→ ← 14°C	16°C → ← 27°C	29°C → ← 34°C	36°C → ←
High	ON	Rank 4	Rank 4	Rank 4	Rank 5
Low	ON	Rank 1	Rank 1	Rank 2	Rank 5
Low Temp	ON	Rank 6	Rank 4	Rank 4	Rank 5
Mildew Guard	ON	Rank 4	Rank 4	Rank 4	Rank 5
Air Purifier	OFF	Rank 1	Rank 1	Rank 1	Rank 1

### ④ Mildew Guard mode

#### 1. Outline of Control

(a) Lowering the temperature once a day 'suppresses' mildew growth.

(b) The dehumidification time changes depending on how much the temperature was lowered (40%: 2 hours, 50%: 4 hours).

Target part	Compressor	Airflow fan	Solenoid valve	Louvre
Operation	ON/OFF	Rank control	OFF	ON/OFF

#### 2. Under the following conditions, mildew guard will clear the time count and restart with initial settings.

Mildew guard starts with dehumidifier operations by turning ON the compressor and fan regardless of the present humidity or time.

(a) The power is turned ON when mildew guard is selected (i.e.: power button is turned ON or ON timer time is reached).

(b) Mildew guard is selected with the MODE button.

(c) Mildew guard is reactivated by operating the air purifier button (Air purifier ON → OFF).

(d) Mildew guard is run for 24 hours.

#### 3. While mildew guard is operating, the dehumidifier is deactivated under the following conditions.

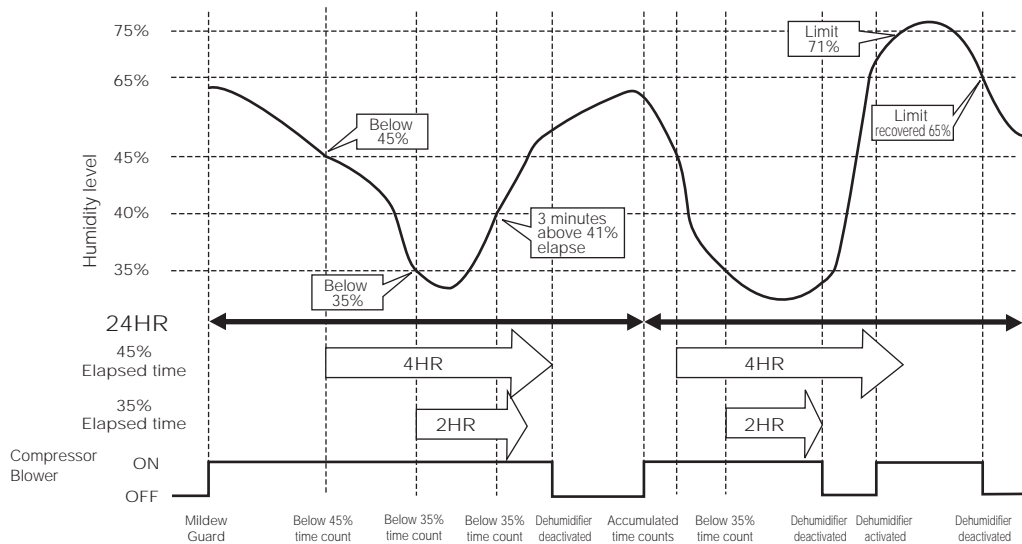
(a) Current humidity below 35% detected followed by 2 hours of below 40%.

However, the accumulated time is cleared if the current humidity breaches 41% for 3 consecutive minutes during the count.

(b) Current humidity below 45% detected followed by 4 hours of below 50%.

However, the accumulated time is cleared if the current humidity breaches 51% for 3 consecutive minutes during the count.

#### 4. After being deactivated in step 3, if the humidity level reaches 71%, the dehumidifier is automatically activated and runs until the level drops below 65%. Below 65%, the dehumidifier remains deactivated until the humidity level again reaches 71% (limiter dehumidifier operation).



#### 5. Mildew guard mode is disabled in the following cases.

(a) The mode button is used to activate Low Temp mode.

(b) The selection button is used to activate the previously set mode (EASY DEHUMIDIFYING/LAUNDRY).

(c) The air purifier button is used to activate AIR PURIFIER mode

## ⑤ Easy Dehumidifier

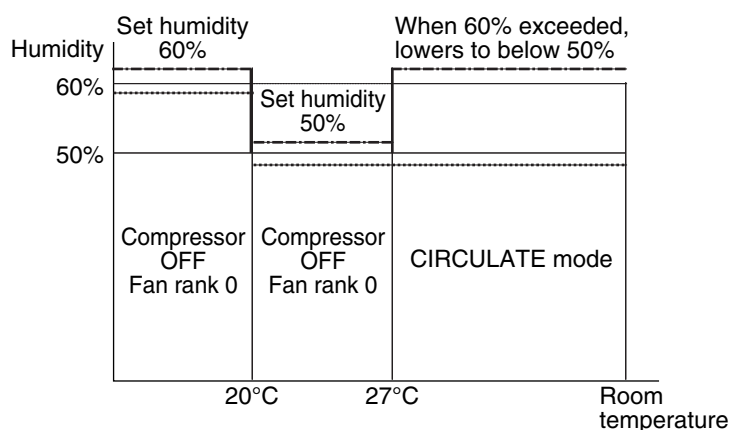
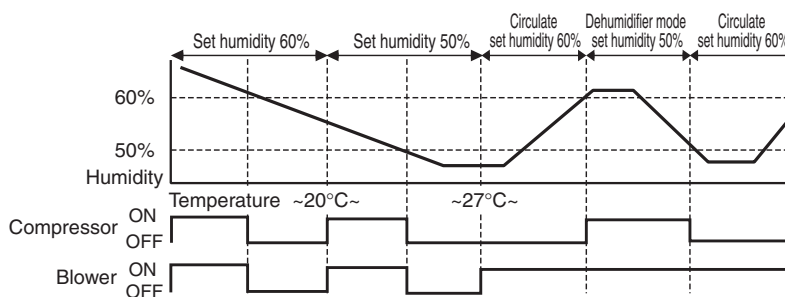
Current humidity – Set humidity		Temperature	←20°C	22°C → ←27°C	29°C → ←34°C	36°C →		
		Temperature table	0	1	2	3		
		Set humidity	60%	50%	60%	50%	60%	50%
		Dehumidification	Dehumidifier mode	Dehumidifier mode	Circulate	Dehumidifier mode	Circulate	Dehumidifier mode
↓	↑ +5%	Fan rank	Rank 3	Rank 3	To Dehumidifier mode	Rank 3	To Dehumidifier mode	Rank 5
		Compressor	ON	ON		ON		ON
+3%	↑	Fan rank	Rank 1	Rank 1		Rank 2		Rank 5
↓	+1%	Compressor	ON	ON		ON		ON
–1%	↑	Fan rank	Rank 0	Rank 0	Rank 3	To Circulate mode	Rank 5	To Circulate mode
		Compressor	OFF	OFF	OFF	OFF	OFF	

### 1. Controls

- Adjusts humidity according to room temperature for increased comfort.
- CIRCULATION mode is activated when the temperature is high and the humidity is low. This mode keeps the compressor off.

Target part	Compressor	Airflow fan	Solenoid valve	Louvre
Operation	ON/OFF	Rank control	OFF	ON/OFF

- Switches temperature table every 60 seconds to prevent the blower from turning on and off at the 3-minute restart for the coloured section in the chart above. (51% – 59%)
- When the room temperature is above 29°C (temperature rising) or 27°C (temperature decreasing), CIRCULATE mode operates with the humidity below 50%.
- The unit activates the dehumidifier when the humidity rises above 60%, and returns to CIRCULATE mode when the humidity drops below 50%.



### 2. Easy DEHUMIDIFYING mode is disabled in the following cases.

- The MODE button is used to activate the previously set mode (HIGH, LOW, AUTO, MILDEW GUARD, LOW TEMP).
- The selection button is used to activate LAUNDRY mode.
- The air purifier button is used to activate AIR PURIFIER mode.

## ⑥ Internal drying

### 1. Controls

- (a) Prevents the growth of mildew by drying the moisture accumulated on the heat exchanger when the dehumidifier is OFF.
- (b) Internal drying operation does not depend on having a full water level.
- (c) The following operations are performed during internal drying operation.

Target part	Compressor	Airflow fan	Solenoid valve	Louvre
Operation	ON/OFF	Rank control	OFF	Stops at 90°

### 2. Start conditions for internal drying operations

- (a) Automatic internal drying mode - This mode starts when the Mildew guard elite button is set to ON, and any of the following conditions are met.
  - The Power button is turned OFF.
  - The OFF timer time is reached.
  - The LAUNDRY mode completes operations.
- (b) Manual internal drying mode - This mode starts when the Mildew guard elite button is operated while the following condition is met.
  - The Power button is turned OFF.

### 3. Operating details

- (a) The following indications are displayed during Internal drying operation
  - LED indicator: Only mildew guard elite lamp flashes, others off
  - LCD panel: All off
- (b) Internal drying operates according to the following steps
  - Step 1: Moisture is allowed to drip from the heat exchanger. The louvre is positioned upwards at 90°.
  - Step 2: Moisture on the heat exchanger is dried with air.
  - Step 3: Moisture on the heat exchanger is dried with heat.
  - Step 4: The heat exchanger is cooled if the temperature rises too high.
  - Step 5: Internal humidity is discharged in Step 4, and the louvre moves to the closed position.
- (c) Step 3 does not perform the tube temperature or room temperature check that accompanies a microprocessor reset, and jumps directly to Step 5.
- (d) Mechanisms operated in the above steps (\* are deemed EEPROM data.)

Step	Fan	Compressor	Solenoid valve	Conditions for moving to next step
Step 1	Rank 1	OFF	OFF	Operates for 5 min.
Step 2	Rank 3	OFF	OFF	Operates for *25 min.
Step 3	Rank 0	ON	ON	Moves to Step 5 when tube temperature is above 45°C * or unit operates for MAX 20 min.
Step 4	Rank 0	OFF	OFF	Operates for 20 min including time for Step 3. *
Step 5	Rank 1	OFF	OFF	Internal drying stops after operating for 10 min.

- (e) Internal drying operation does not stop even if tank full is detected.

### 4. Conditions for internal drying operation to end

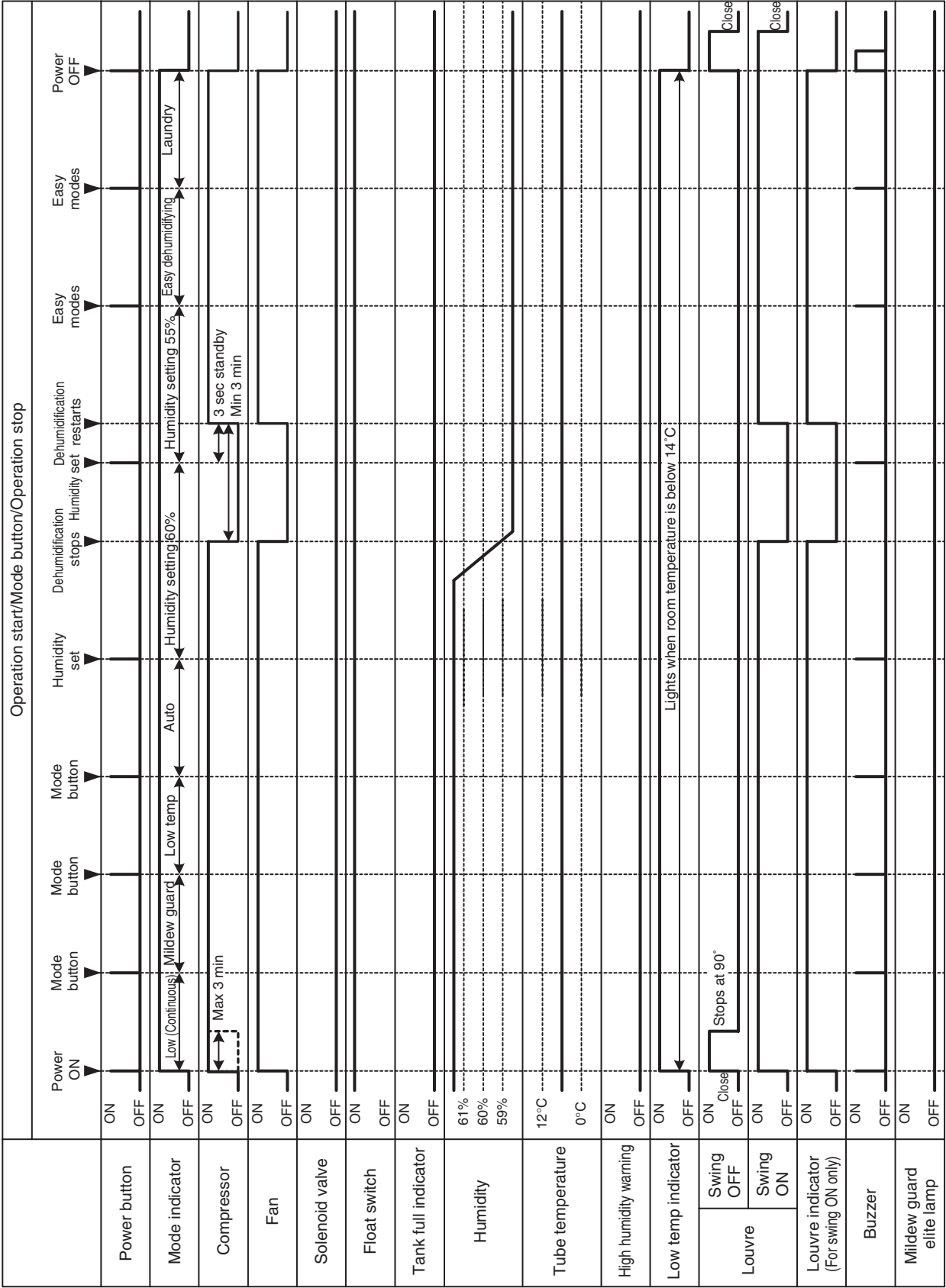
- (a) Upon completion of step 5 above.
- (b) The following buttons terminate internal drying operation (during steps 1 to 5 above) when pressed.
  - Power button
  - Mildew guard elite button
  - ON timer button
- (c) The following operations are performed when internal drying ends.

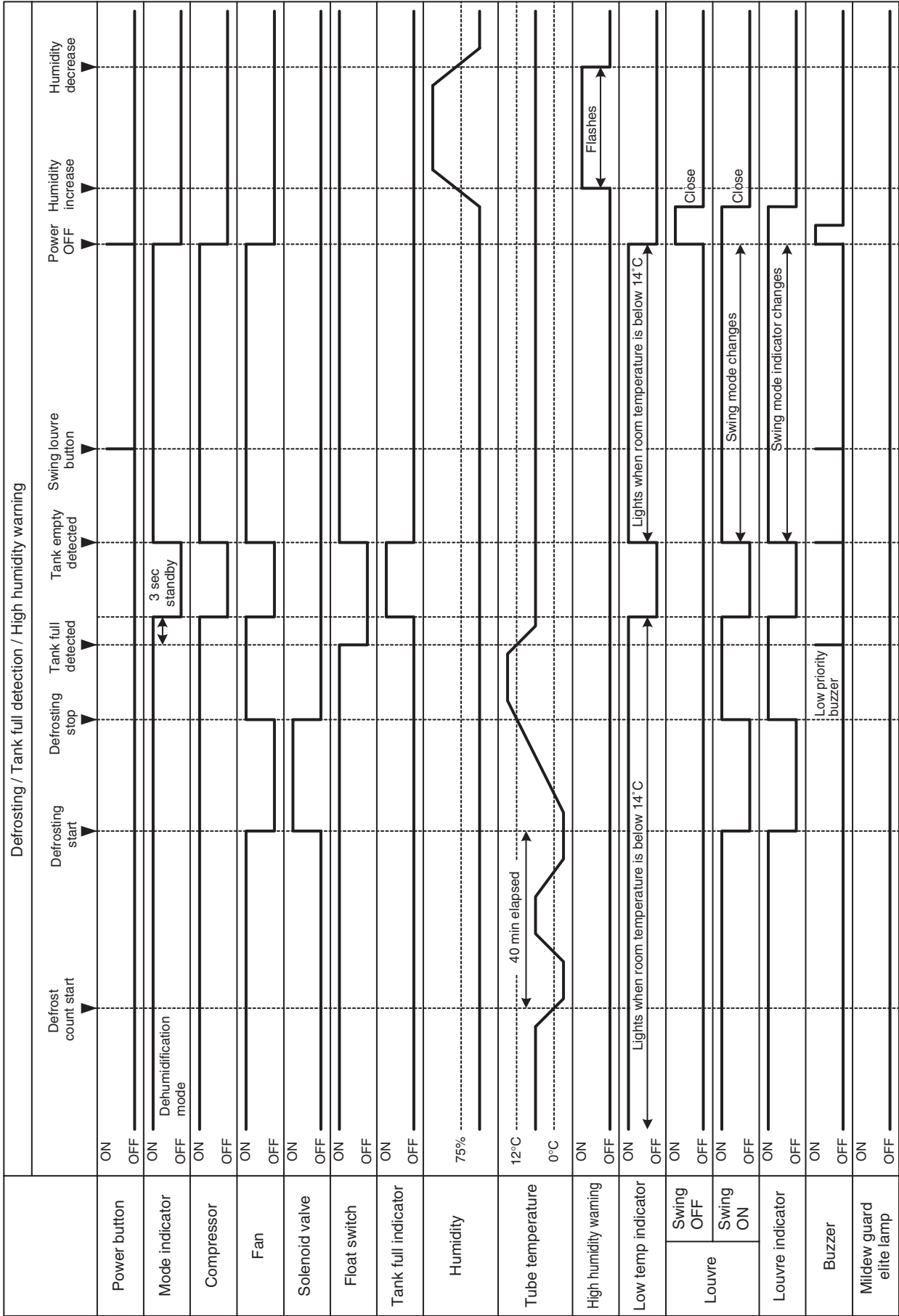
Target part	Compressor	Airflow fan	Solenoid valve	Louvre
Operation	OFF	Rank 0	OFF	Closed

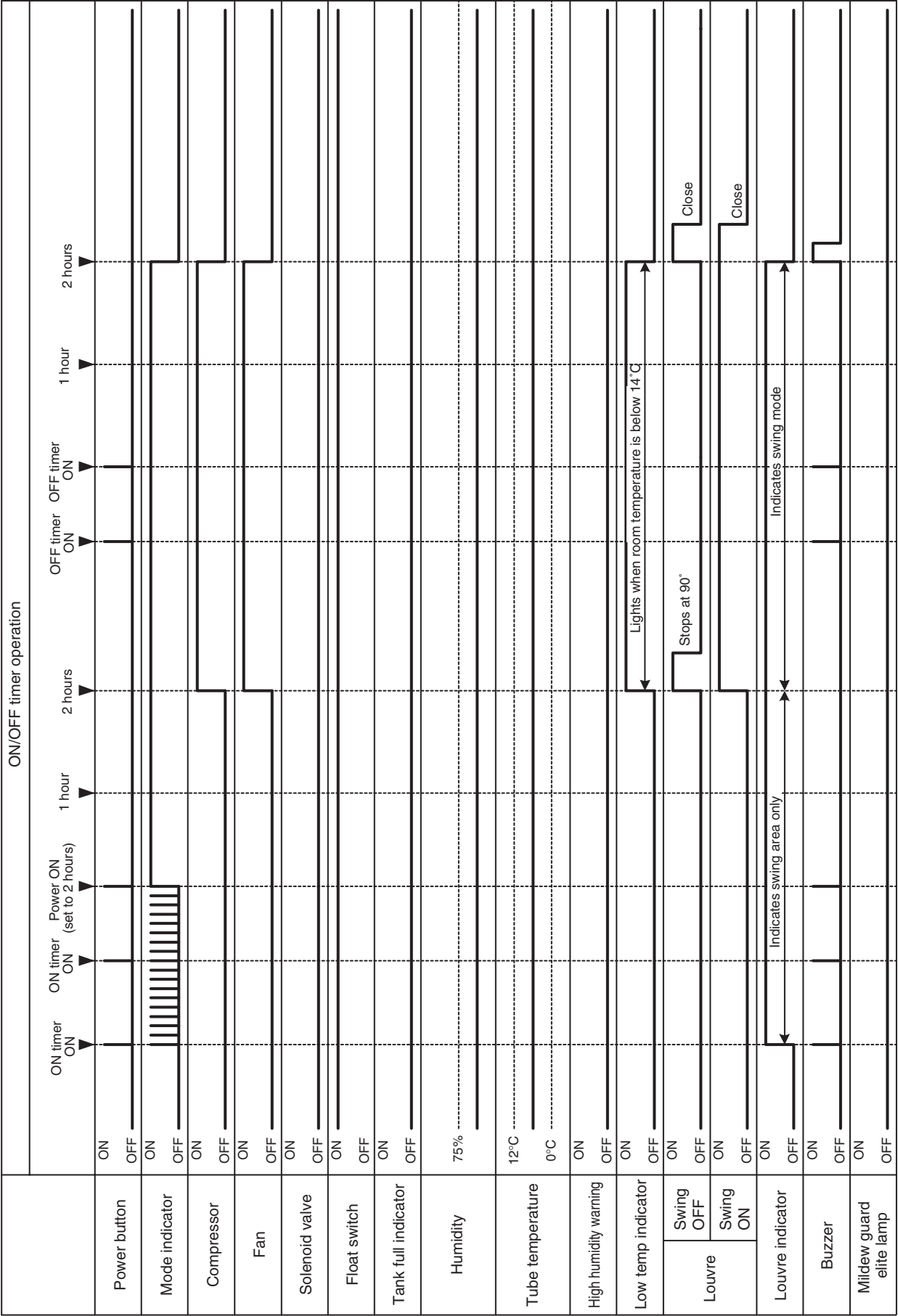
### 5. Internal drying operation is not performed under the following conditions.

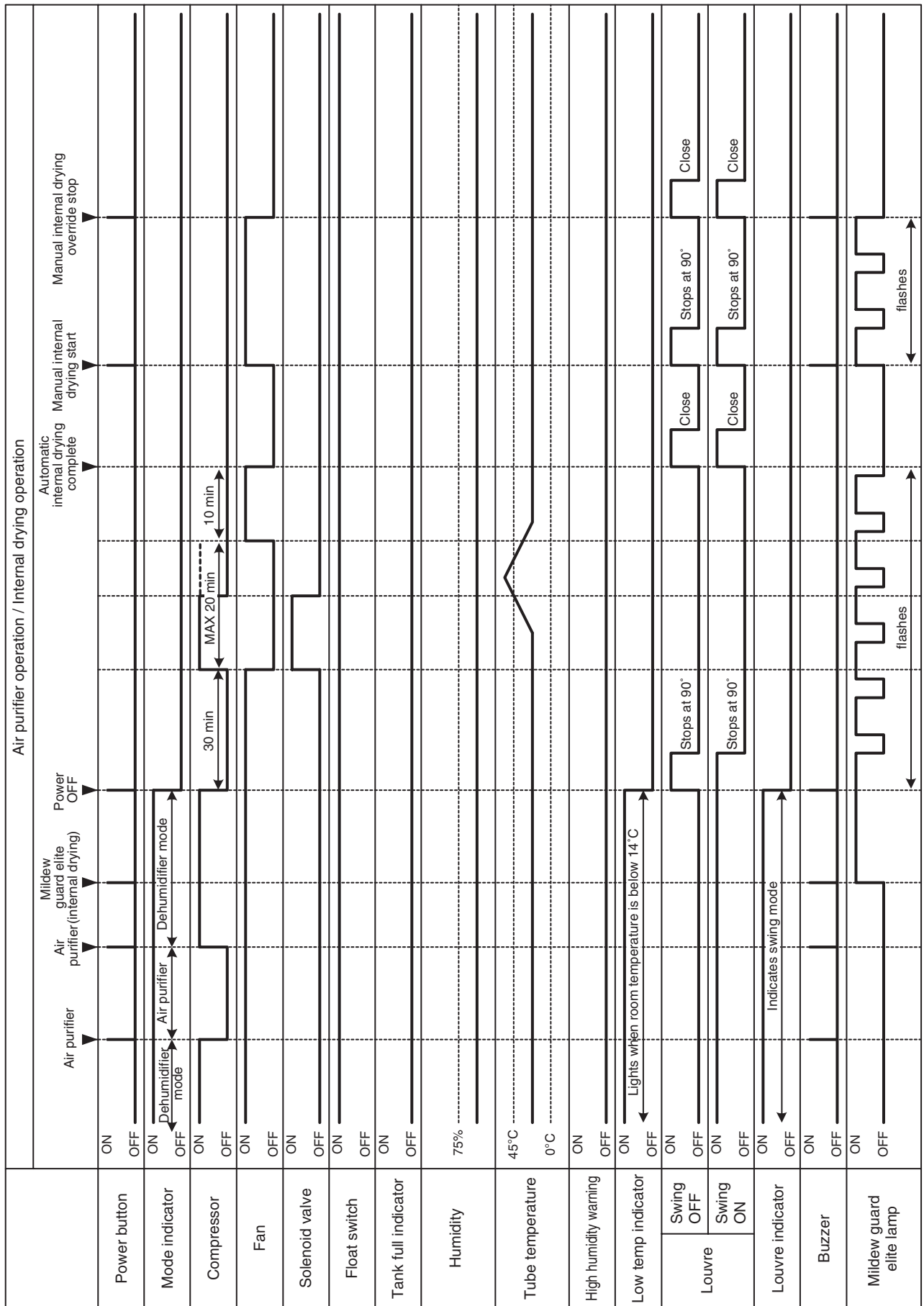
- (a) The power is ON.
- (b) The ON timer is operating.
- (c) An error is detected during self-diagnosis.

7.3. Timing Charts

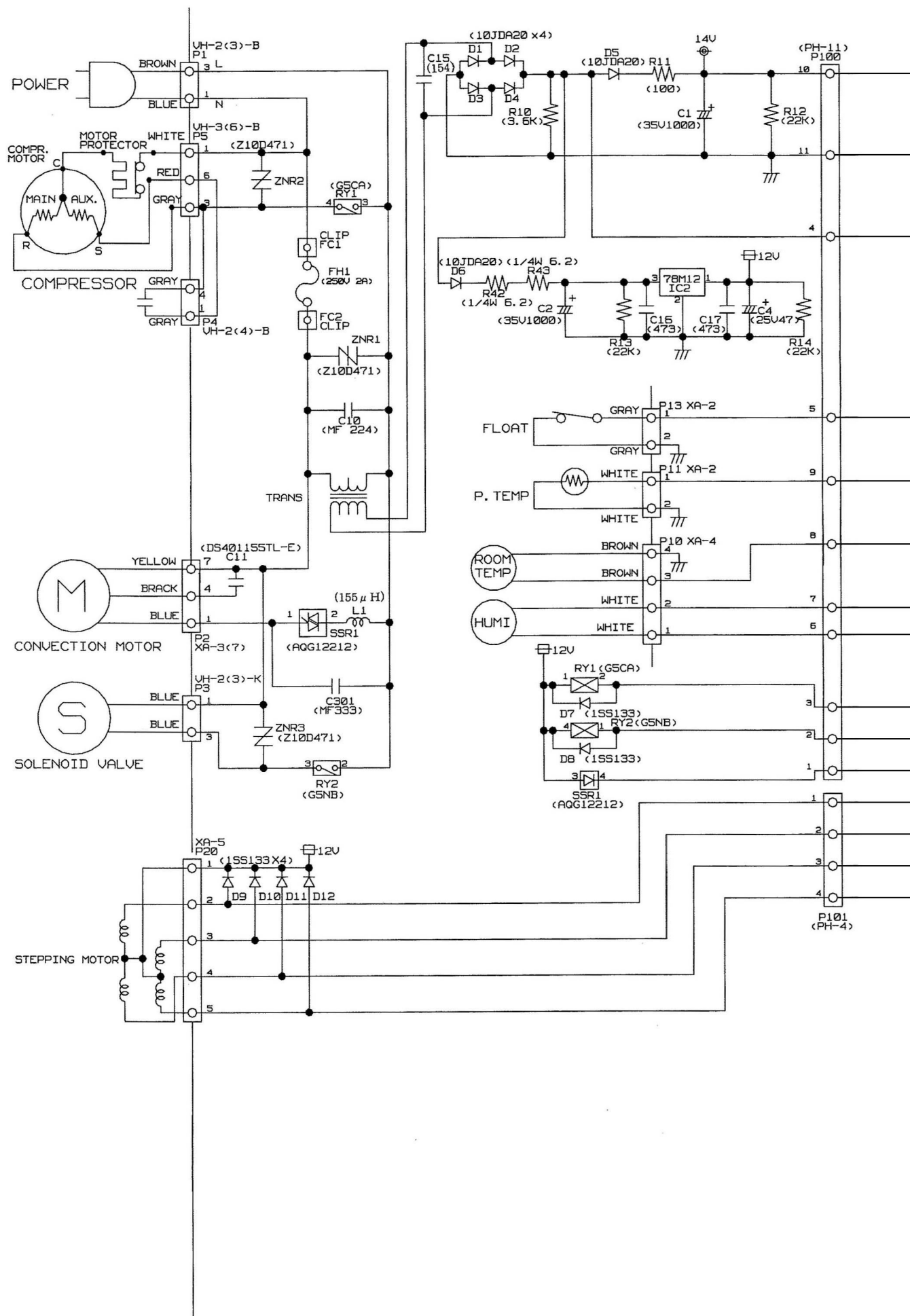


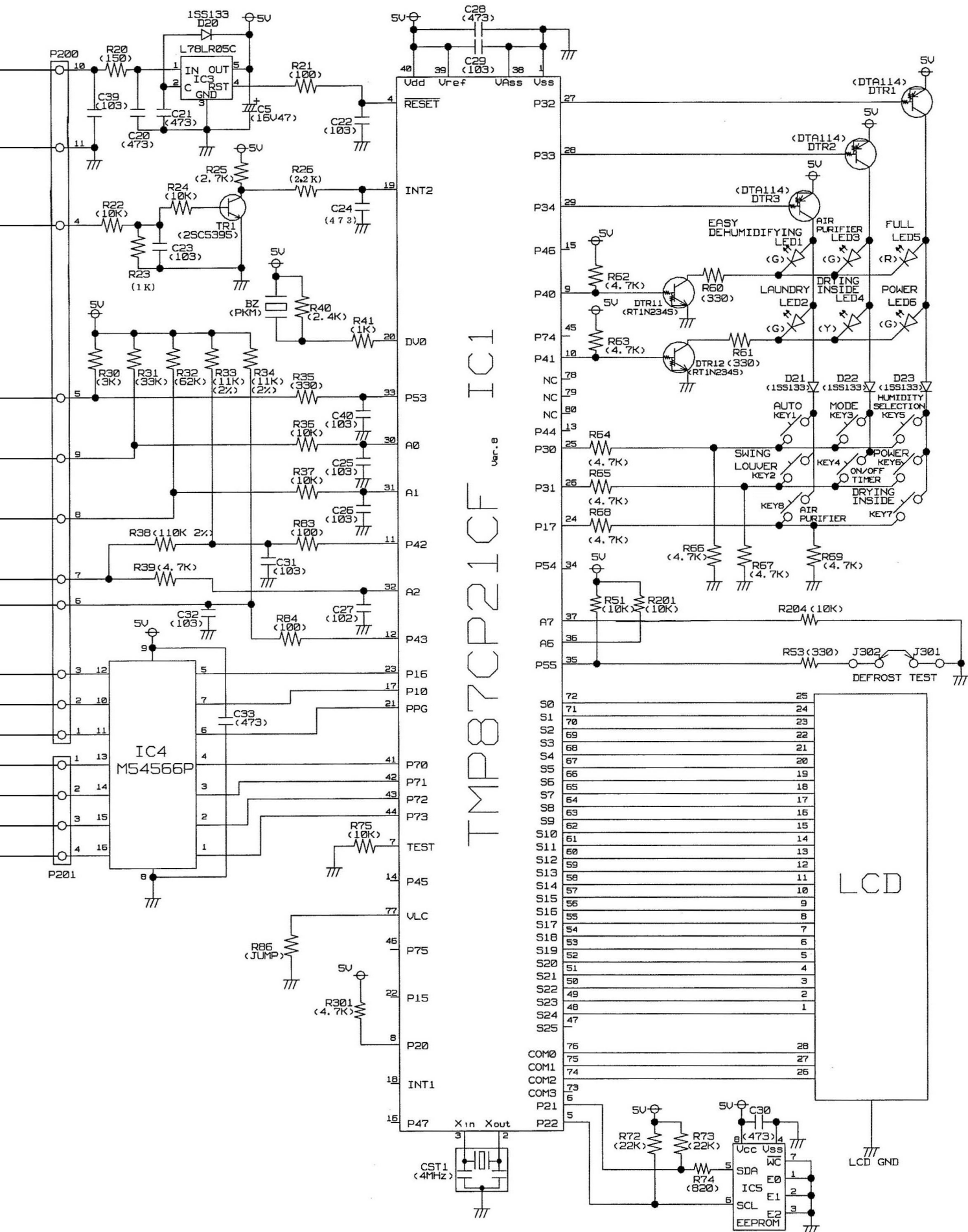






## 7.4 General Block Diagram

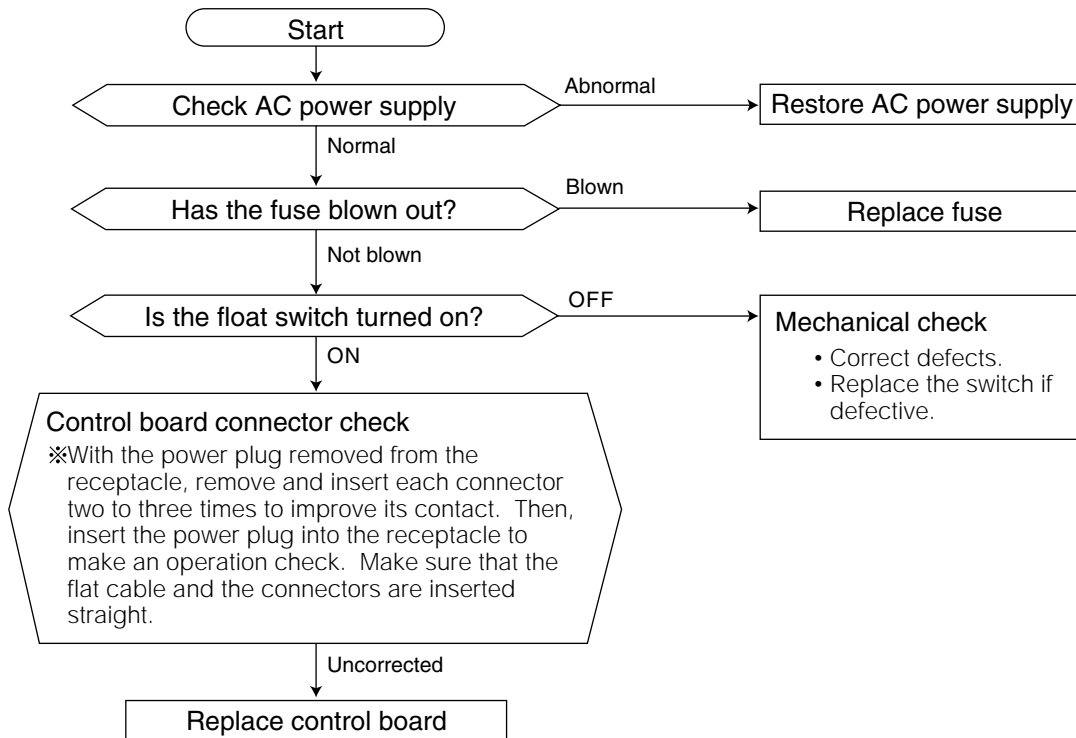




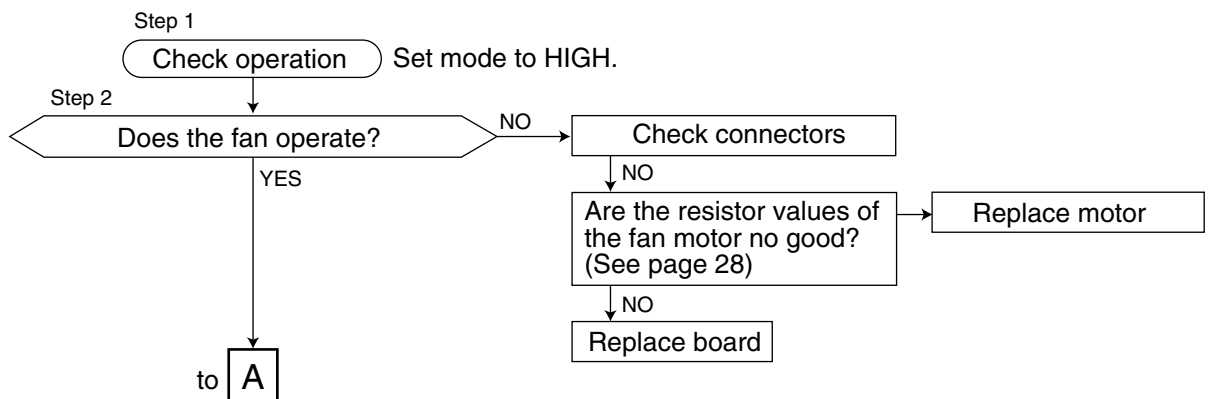
## 8. Troubleshooting Procedure

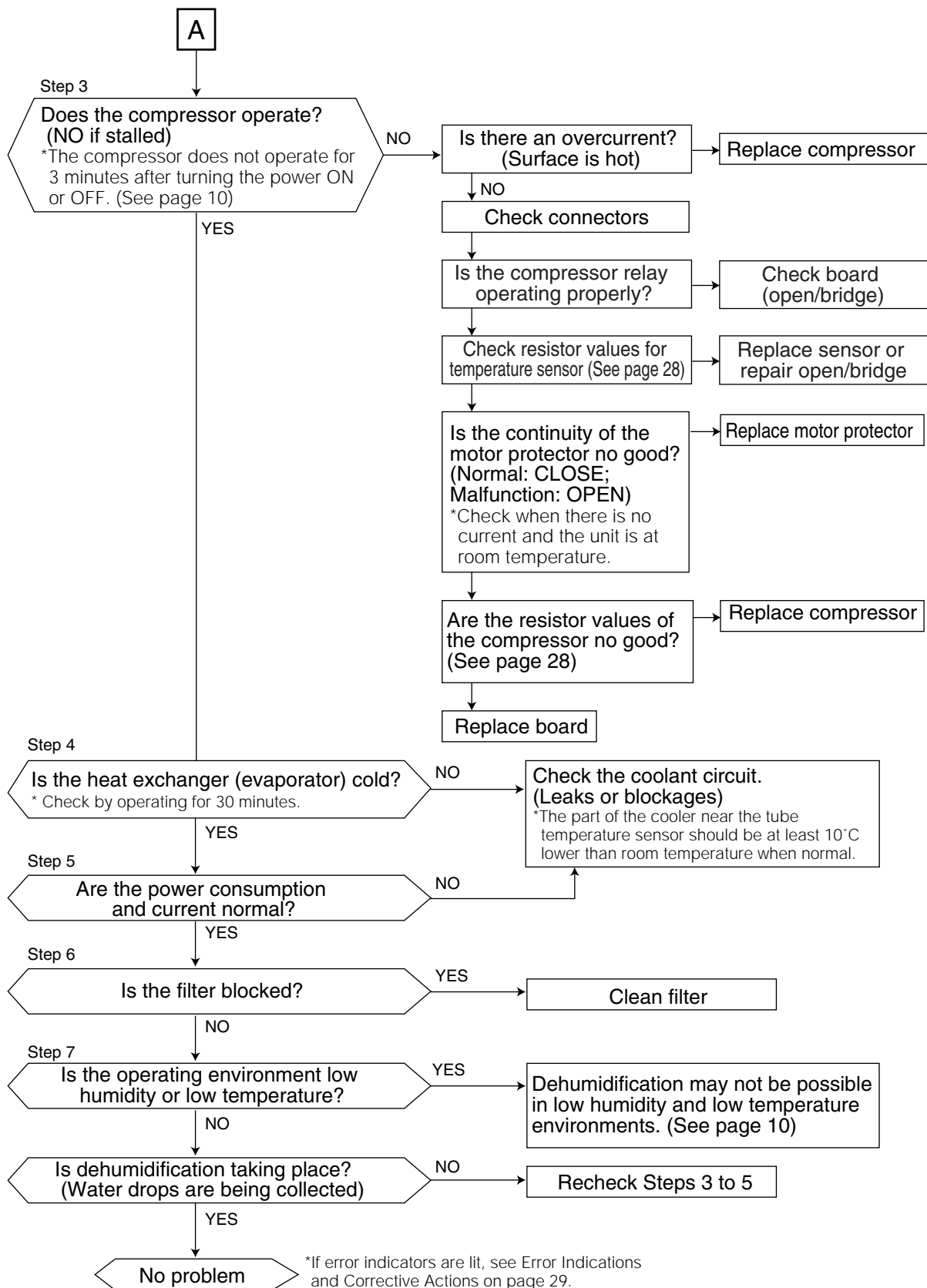
### 8.1 Troubleshooting flowchart

#### The unit does not operate



#### Dehumidifier doesn't operate at all





\* If the customer complains that the unit won't dehumidify, make the following checks before starting to repair the coolant circuit:

① Clogged filter, or dust: → Action: Clean.

② Low-temperature, low-humidity operating environment:

→ Action: See the explanation of the graph on page 11, or move the unit to a kitchen or bathroom and request verification of its performance.

③ Request checking whether the unit is in an automatically-stopping operation mode such as "AUTO" or "EASY DEHUMIDIFYING", etc.

→ Action: Verify to dehumidify in "HIGH" operation mode. (See pages 5 – 7.)

## 8.2 Key Component Check Procedures

Component name	Testing procedure		
Tub temperature sensing thermistor P11	Detach the connector and measure the resistance using a multimeter (component temperature: 10°C to 30°C).		
	Normal		Abnormal
	Between P11 pins: 8.0kΩ to 20.8kΩ		Open or shorted
Room temperature and humidity sensor board	Detach the connector and measure the resistance using a multimeter (component temperature: 10°C to 30°C). Normal: 47 to 51kΩ (between P10 pins 3 and 4) Abnormal: Open or shorted		
Compressor	With the connector detached, measure the resistance across the terminals using a multimeter (winding temperature: 10°C to 30°C).		
		Normal	Abnormal
	C-R side	25.0Ω ~ 27.1Ω	Open or shorted
	C-S side	67.9Ω ~ 73.5Ω	
Fan motor	Measure the resistance between terminals using a multimeter (winding temperature: 10°C to 30°C).		
		Normal	Abnormal
	Yellow-Blue	258Ω ~ 280Ω	Open or shorted
	Black-Blue	379Ω ~ 411Ω	
Solenoid valve coil	Measure the resistance between terminals using a multimeter (component temperature: 10°C to 30°C).		
	Normal		Abnormal
	2.6kΩ ~ 2.9kΩ		Open or shorted
Stepping motor	Measure the resistance across terminals with a multimeter. (Part temperature: approx 25°C)		
		Normal	Abnormal
	Terminals 1-2	342Ω ~ 418Ω	Open or shorted
	Terminals 1-3		
	Terminals 1-4		
	Terminals 1-5		

### 8.3 Error Indications and Corrective Actions

Indication (Timer display)	Error (failure)	Corrective action
E0	P10 connector out of position Room temperature thermistor blowout	Check the P10 connection. Check the room temperature and humidity sensor board.
E1	Room temperature thermistor short Room temperature and humidity sensor board failure	
E7	P11 connector out of position Tube temperature thermistor blowout	Check the P11 connection. Check the tube temperature thermistor.
E8	Tube temperature thermistor short Tube temperature sensor failure	
A1	Microprocessor failure RAM error	Replace the main board.
A2	Frequency determination error (When power is on)	Outlet/power check (Replace the main and power supply boards.)
A3	Frequency determination error (During operation)	
A6	Watchdog timer error	Replace the main board.
P4	Compressor	Check blowing performance. Check the tube temperature thermistor. Check the compressor operating noise.

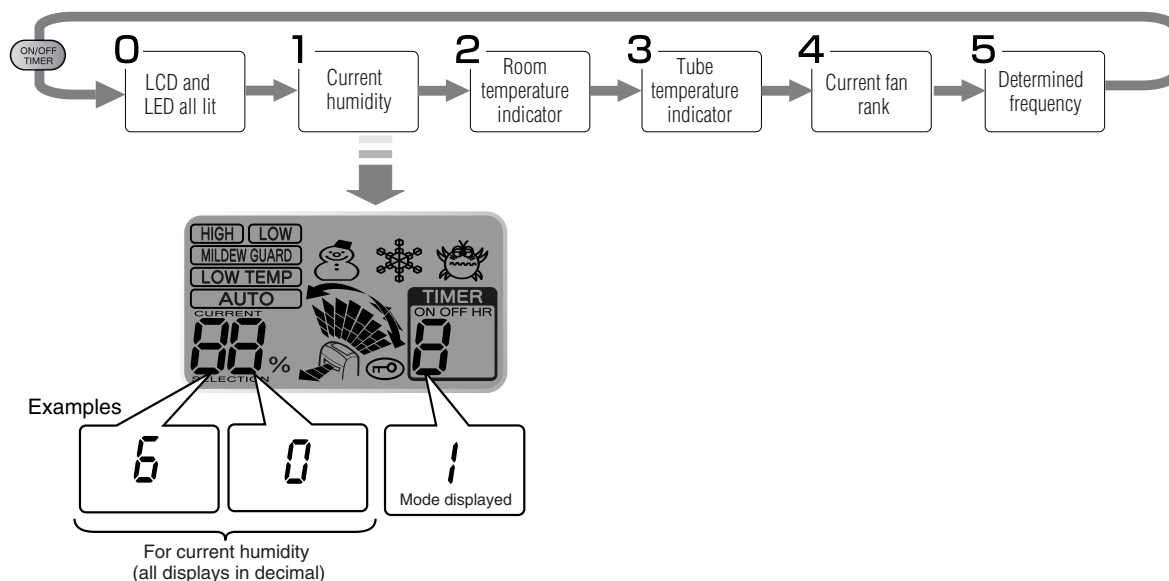
### 8.4 Self-Test Program and Execution Procedure

#### (1) Deactivating 3-minute restart prevent lock

- Start: Press the MODE and HUMIDITY SELECTION buttons together 3 times when the power is off. Press the POWER button within 2 seconds.
- Functions:
  - ① Deactivates 3-minute restart prevention lock (immediate operation)
  - ② Fan: Fix at rank 6 (max. airflow)
  - ③ Activates compressor
  - ④ Operating mode: Low Temp
  - ⑤ Low temperature is indicated on LCD.
  - ⑥ When EEPROM error is detected, water full, mildew guard elite, air purifying and LED are lit.
- To end: Turn power off. The solenoid valve functions for 3 seconds.

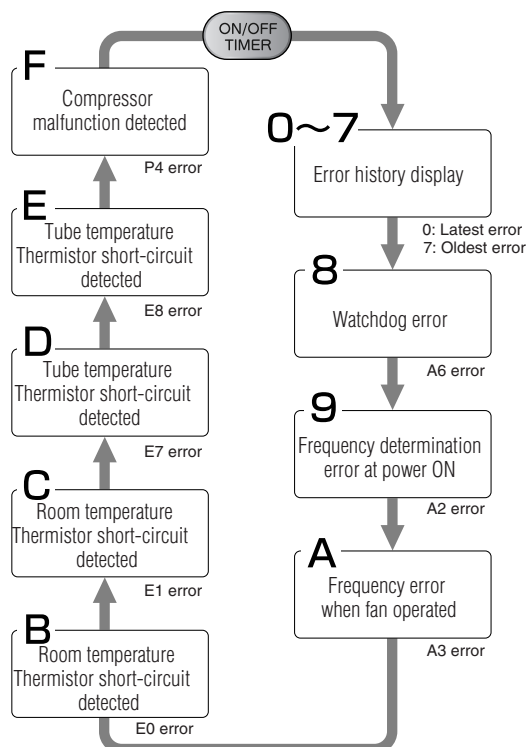
## (2) LED, LCD and fan tests

- Start: Press the MODE and HUMIDITY SELECTION buttons simultaneously 4 times when the power is off. Press the POWER button within 2 seconds.
- Mode select: Use the timer switch to change the diagnosis mode (0 - 5).
- Finish: Turn the power OFF. The solenoid valves operate for approximately 3 seconds.

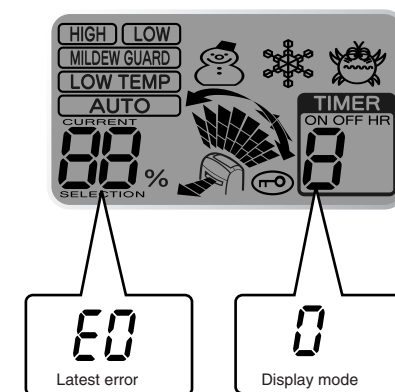


## (3) Operation/Error history mode

- Start: Press the MODE and HUMIDITY SELECTION buttons simultaneously 5 times when the power is off. Press the POWER button within 2 seconds.
- Mode select: Use the Timer button to select indicator mode (0-F).
- Finish: Turn the power OFF. The solenoid valves operate for approximately 3 seconds.



Example: Latest error display



When "display mode" is 8 to F, the number of error generations is displayed in hexadecimal.

## (4) Demo program

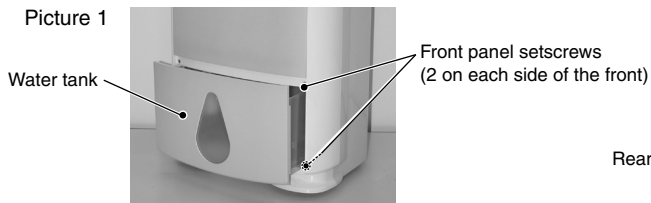
- Start: With the power OFF, hold down the MODE and SELECTION buttons, and press the power button. The demo program starts in 3 seconds.
- Operations (all buttons are disabled):
  - ① Fan: Fixed at rank 3
  - ② Compressor/solenoid valve: Stopped
  - ③ LCD/LED: Lights in random sequence
  - ④ Swing louvre: Wide
- End: Remove power plug.

## 9. Disassembly and Reassembly Hints

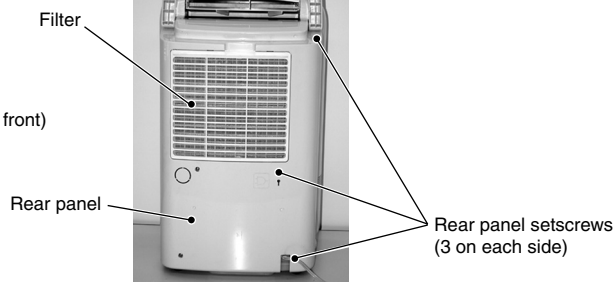
### 9.1 Disassembly procedure

#### 1. Remove the filter and the water tank

(See Pictures 1 and 2.)



Picture 2



#### 2. Detach the rear panel

Step 1) Remove the rear panel setscrews (6).

(See Picture 2.)

2) Pull out the rear panel. (See Picture 3.)

#### 3. Detach the front panel assembly

Step 1) Detach the rear panel as directed in Procedures 1 and 2 above.

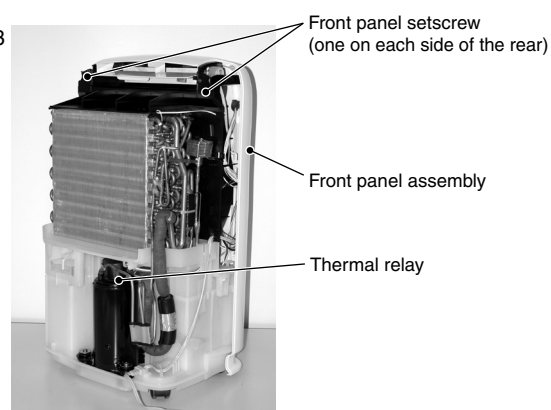
2) Remove the front panel setscrews (2 on each side of the front). (See Picture 3.)

3) Remove the front panel setscrews (1 each on the left and right) from the rear. (See Picture 3.)

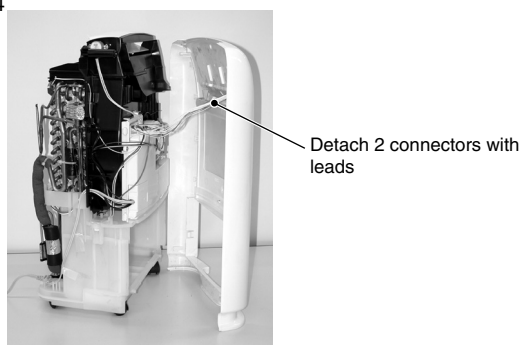
4) Slide the front panel upward, then forward (straight) to avoid the swing louvre.

5) Pull the front panel forward and remove it by releasing the main board connectors (P100, P101) and leadwire set tape from the power supply board.

Picture 3



Picture 4



Repairable parts

Control board, power supply board, solenoid valve, tube temperature sensor, room temperature and humidity sensor, stepping motor

(See Picture 5.)

<<Demounting the control board>>

Step 1) Remove 2 board cover setscrews.

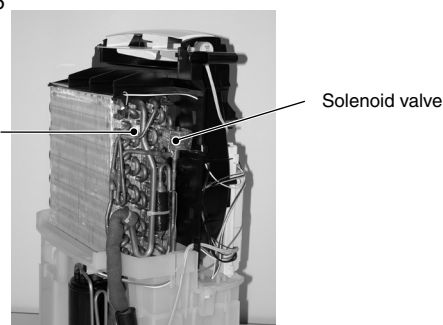
(See Picture 6.)

2) Remove the panel cover from the front panel.

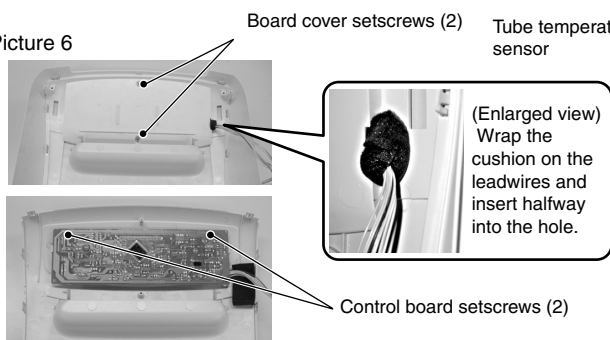
3) Remove the 2 control board set screws.

4) Life off the control board.

Picture 5



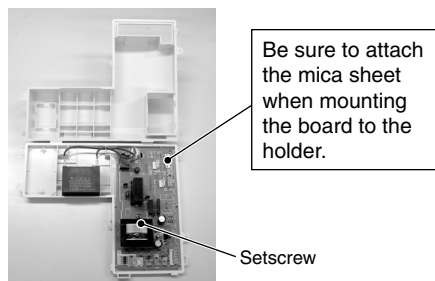
Picture 6



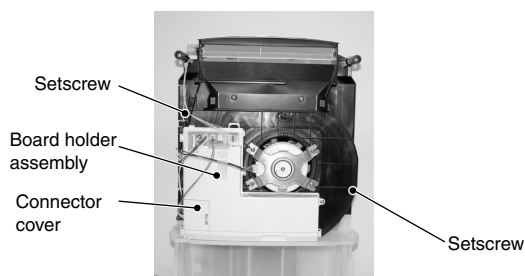
# <<Demounting the power supply board>>

- Step 1) Detach the connector cover.
- 2) Pull out the board connectors.
  - 3) Pull out the board holder assembly setscrews (2) and remove the holder assembly.
  - 4) Open the cover by unhooking it from the board holder. (See Picture 7.)
  - 5) Remove the compressor capacitor and the connector (P4), demount the board and remove mica sheet. (See Picture 8.)

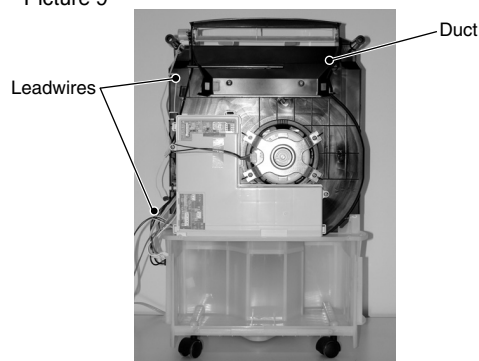
Picture 8



Picture 7



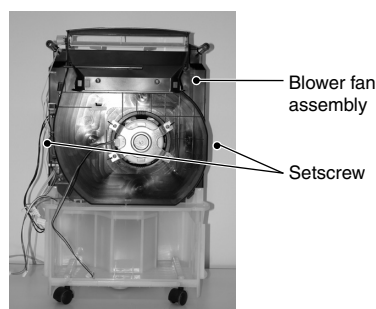
Picture 9



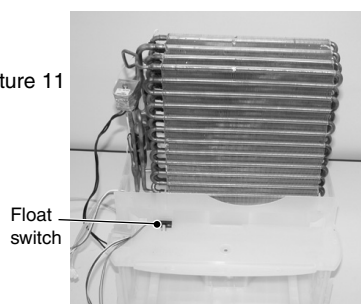
## 4. Removing the blower fan assembly

- Step 1) Detach the front panel assembly and rear panel as directed in Procedures 1 to 3 above.
- 2) Disconnect leadwires from the motor support case. (See Picture 9.)
  - 3) Remove blower fan assembly setscrews (2). (See Picture 10.)
  - 4) Lift off the blower fan assembly.

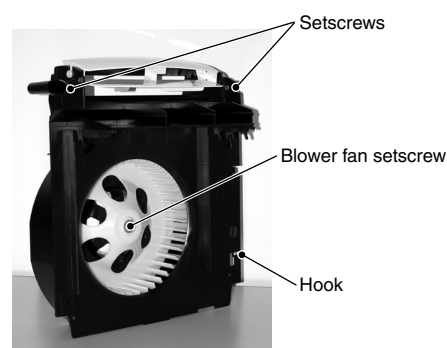
Picture 10



Picture 11



Picture 12



Repairable parts

Float switch, blower motor, and blower fan

# <<Removing the float switch>>

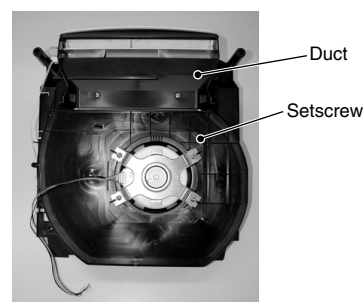
- Step 1) Remove the float switch.

Note: Handle the float switch with care when removing and reinstalling it. (See Picture 11.)

# <<Removing the blower motor>>

- Step 1) Remove setscrews (2) and then release duct hooks (3). (See Picture 12.)
- 2) Remove the blower fan and set nut (1) to release the fan. (See Picture 12.)
  - 3) Remove the duct, the motor support frame and setscrews (4) to release the support frame. (See Picture 13.)

Picture 13

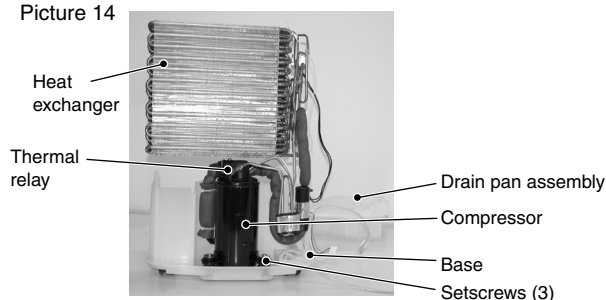


## 5. Removing the drain pan assembly

- Step 1) Remove the front pan assembly, rear panel, and blower fan assembly as directed in Procedures 1 to 4.
- 2) Remove filament tapes from the left and right hooks between the drain pan and base and from the middle (3).
- 3) With the heat exchangers (heat radiation, cooling) lifted on the right side, raise the drain pan upward to unhook it from the base.
- 4) Remove the drain pan assembly avoiding the heat exchanger and piping.

(See Picture 14.)

Picture 14



Repairable parts

Heat exchangers (heat radiation, cooling), dryer, thermal relay

## 6. Removing the compressor and the heat exchanger unit

- Step 1) Remove the front pan assembly, rear panel, blower fan assembly, and drain pan assembly as directed in Procedures 1 to 5. (See Picture 14.)
- 2) Place a support on the right side of the heat exchangers (heat radiation, cooling), and remove the compressor setscrews (3).
- 3) Hold the compressor and heat exchangers by hand, and release them from the base.

Repairable parts

Compressor

# 10. Continuous Drainage

If a drain is available, the unit can continuously drain excess water by attaching a commercially available hose (internal diameter 15mm). The unit can be operated for extensive periods without the need to empty the water tank.

Items to prepare

- Commercially available hose (I.D. 15mm)
- Long enough to reach the drain
- Pincers

### CAUTION



Do not drain water continuously if there is a possibility that temperatures around the hose could drop below freezing point. Water inside the hose may freeze and water may leak from the unit and damage surrounding objects.



When draining water continuously or left unattended for long periods, inspect the unit once a fortnight. Foreign objects, etc. could clog the hose resulting in overheating and/or leakage.

### How to set up the drainage hose

#### Correctly installed

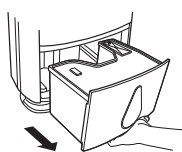


#### Incorrectly installed

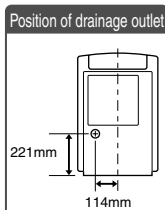
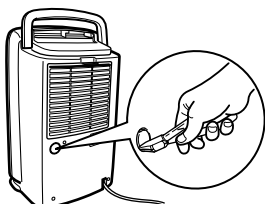


- hose immersed in water
  - hose raised to a level higher than the drainage outlet
- **The water will not drain.**

### 1 Remove the water tank.

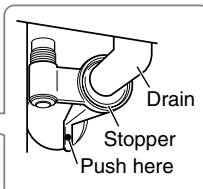
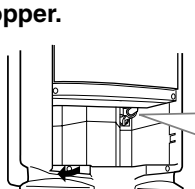


### 2 Open the drainage outlet.

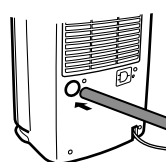


Use pincers to cut away the three securing ribs of the continuous drainage outlet. Remove carefully without letting any debris fall inside.

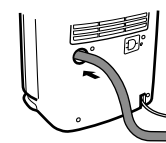
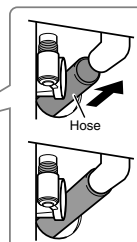
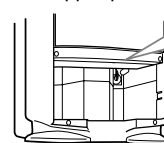
### 3 Press drain stopper.



### 4 Insert the hose into the drainage outlet on the back.



Feed the commercially available hose (ID 15 mm) into the drainage outlet while keeping the stopper pressed



Feed the hose into the drainage outlet. Confirm that the hose is securely attached and does not leak.

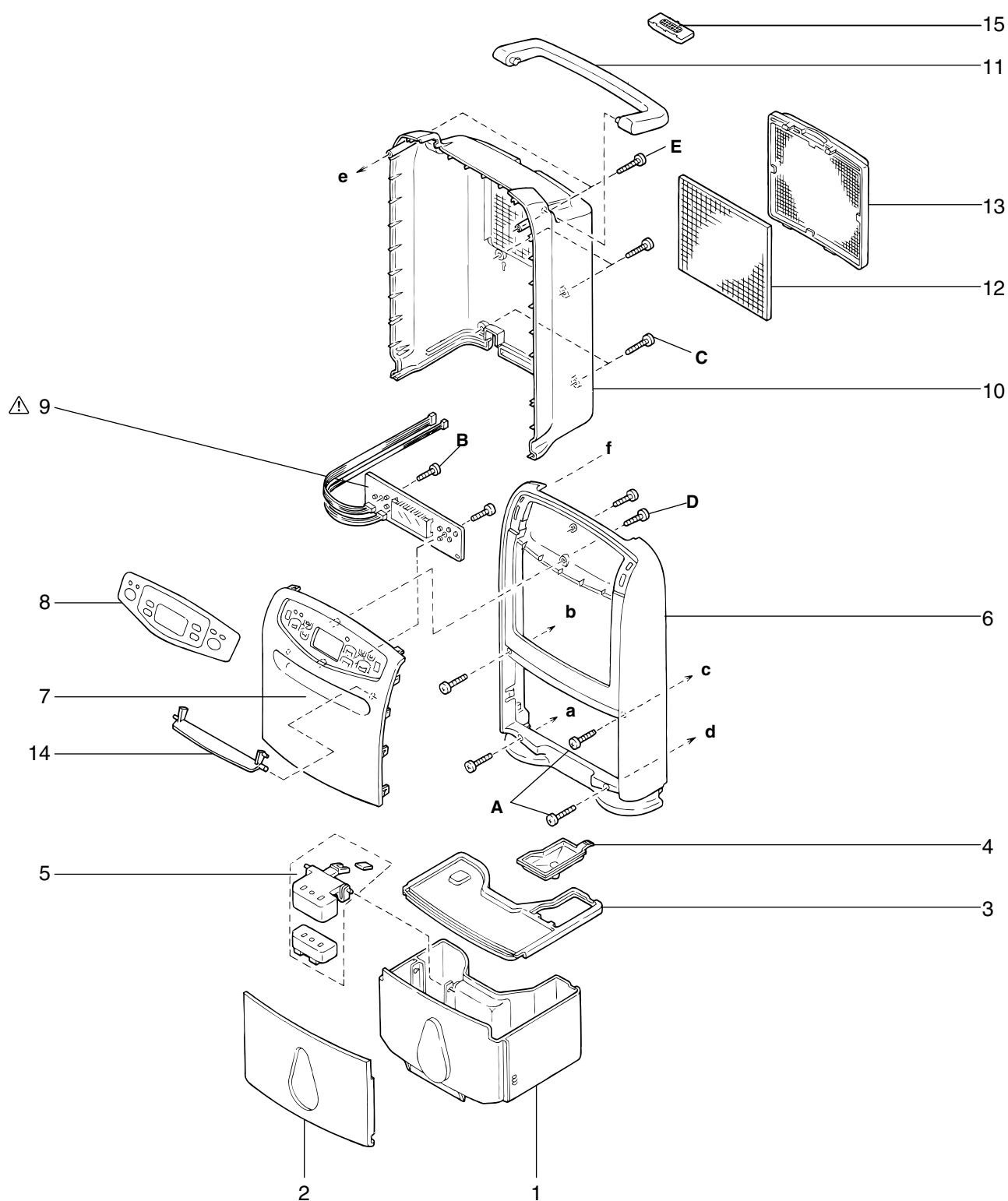
### 5 Attach the tank and set the end of the hose in the drain.

The unit cannot operate without returning the tank.

Note

- Confirm that the hose does not show signs of deterioration such as bending cracks and clogging.
- Inspect the hose every 2 weeks. Insects or dirt blocking the hose may cause leakage resulting in malfunctions.



Model MJ-E26VX-A1 Exploded View  
<Casing and Structure>



## Parts Catalog

## Model MJ-E26VX-A1 Parts List <Casing and Structure>

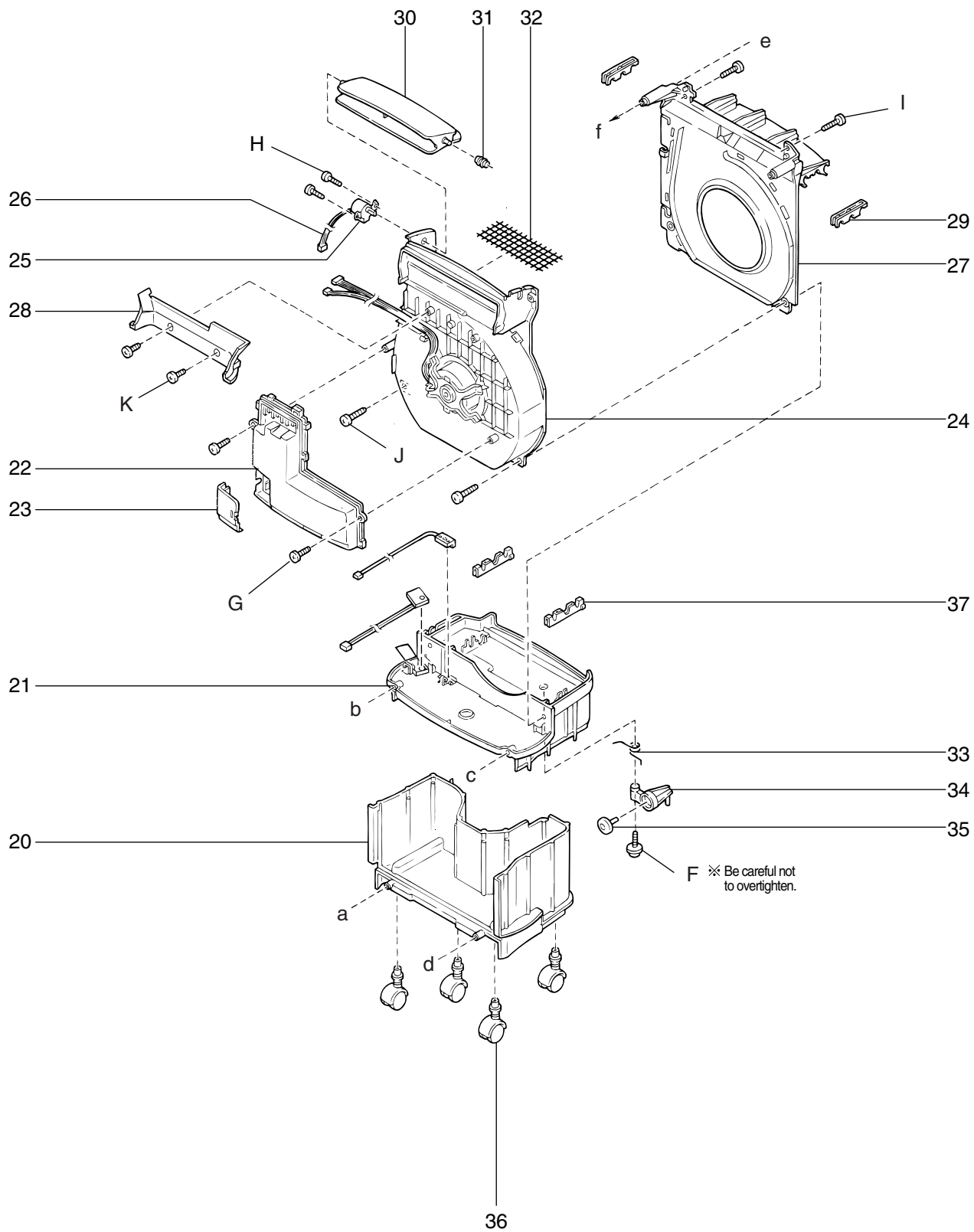
Notes:

1. Circled reference numbers indicate performance parts.
2. New parts and the parts that are used only with these models lack compatibility.
3. Those parts that are marked by  and  are of critical importance for sustaining safety and performance. Use specified parts at replacement.
4. When ordering parts without part numbers, use the design number. The order may take a while to process.

[illegible]

- \*1. If the part is out of production, you may be required to use a common part.  
\*2. Parts found installed in products may have a different part number from service parts. However, there should be no difference in performance and can be installed.

## Model MJ-E26VX-A1 Exploded View <Casing and Structure>





## Parts Catalog

## Model MJ-E26VX-A1 Parts List

### <Casing and Structure>

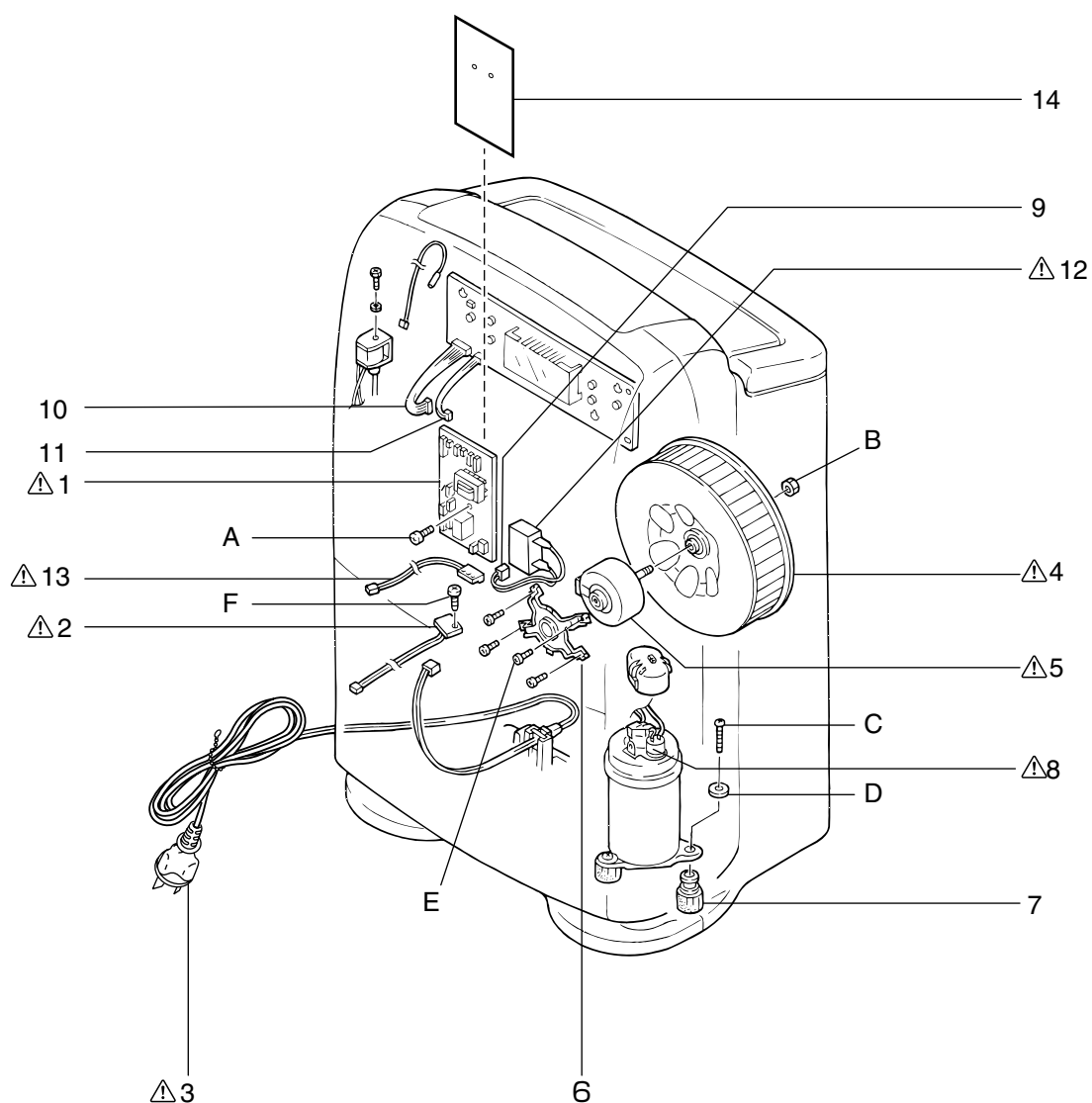
Notes:

1. Circled reference numbers indicate performance parts.
2. New parts and the parts that are used only with these models lack compatibility.
3. Those parts that are marked by  and  are of critical importance for sustaining safety and performance. Use specified parts at replacement.
4. When ordering parts without part numbers, use the design number. The order may take a while to process.

[illegible]

- \*1. If the part is out of production, you may be required to use a common part.  
\*2. Parts found installed in products may have a different part number from service parts. However, there should be no difference in performance and can be installed.

## Model MJ-E26VX-A1 Exploded View <Electrical Parts>





## Parts Catalog

## Model MJ-E26VX-A1 Parts List

### <Electrical Parts>

Notes:

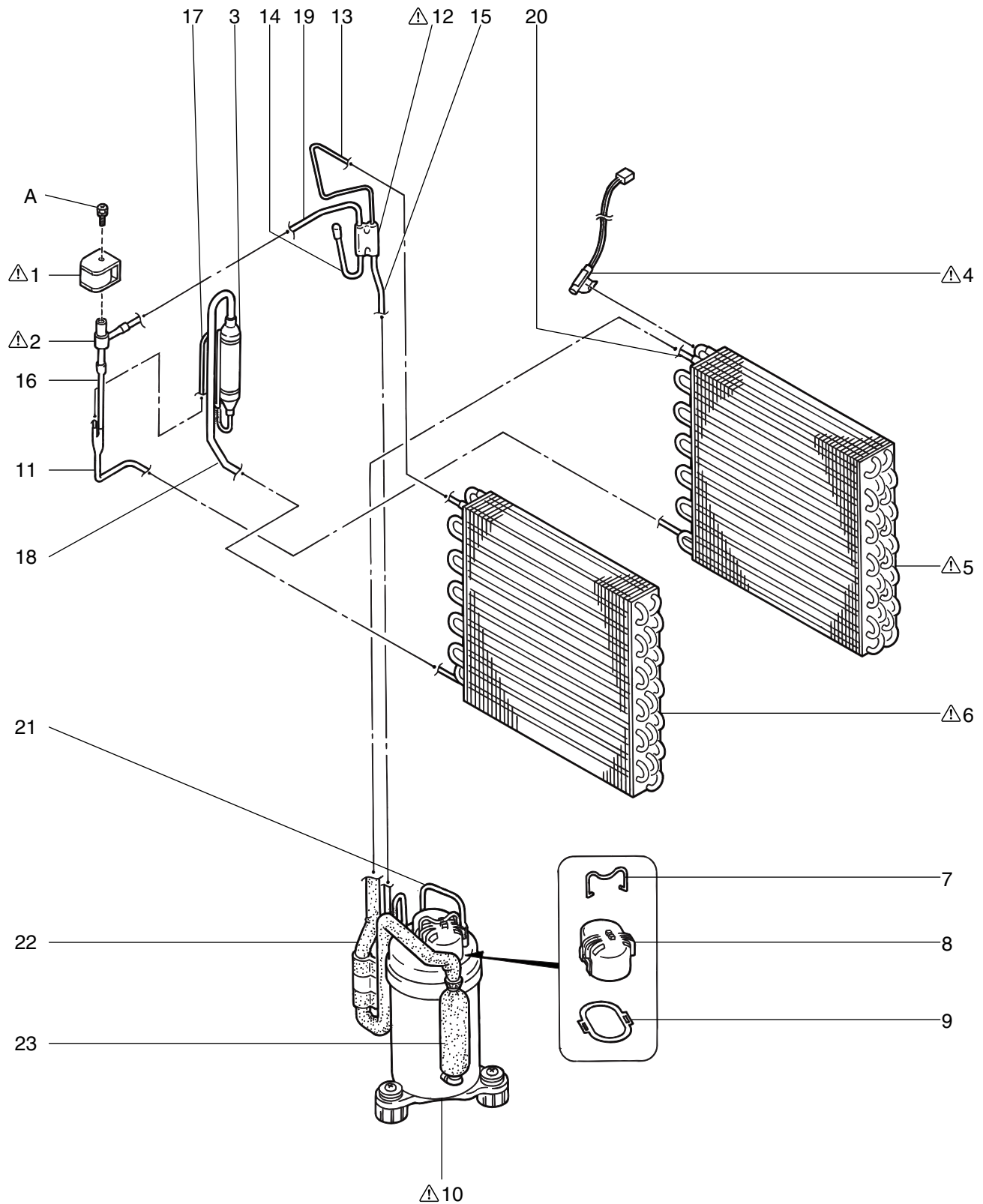
1. Circled reference numbers indicate performance parts.
2. New parts and the parts that are used only with these models lack compatibility.
3. Those parts that are marked by  and  are of critical importance for sustaining safety and performance. Use specified parts at replacement.
4. When ordering parts without part numbers, use the design number. The order may take a while to process.

[illegible]

- \*1. If the part is out of production, you may be required to use a common part.
- \*2. Parts found installed in products may have a different part number from service parts. However, there should be no difference in performance and can be installed.

## Parts Catalog

## Model MJ-E26VX-A1 Exploded View <Compressor Parts>





## Parts Catalog

## Model MJ-E26VX-A1 Parts List

### <Compressor Parts>


Notes:

1. Circled reference numbers indicate performance parts.
2. New parts and the parts that are used only with these models lack compatibility.
3. Those parts that are marked by  and  are of critical importance for sustaining safety and performance. Use specified parts at replacement.
4. When ordering parts without part numbers, use the design number. The order may take a while to process.

[illegible]

- \*1. If the part is out of production, you may be required to use a common part.
- \*2. Parts found installed in products may have a different part number from service parts. However, there should be no difference in performance and can be installed.

## 11. Troubleshooting

Symptom	Cause/Remedy
The unit blows warm air	<ul style="list-style-type: none"> <li>Dehumidified air passes through heating coils causing it to warm (this unit is not a cooler). This is not a malfunction.</li> </ul>
Water does not collect in the water tank (minimal dehumidifying results)	<ul style="list-style-type: none"> <li>Check to see if the temperature/humidity is low. Low room temperature/humidity reduces dehumidifying effectiveness.</li> </ul>
<b>The unit does not operate (no air comes out)</b> <b>The unit stops</b> <div> <div>Stops after a short time</div> <div>Louvre does not swing</div> <div>○ FULL Lights</div> <div> Indicates</div> </div>	<ul style="list-style-type: none"> <li>Check to see if the power cord is correctly plugged. → Plug the power cord properly into the power socket.</li> <li>Check to see if anything is blocking the air intake or outlet. → Remove the obstruction.</li> </ul>
	<ul style="list-style-type: none"> <li>Check to see if the pre-filter is clogged. → Clean according to the maintenance procedures.</li> </ul>
	<ul style="list-style-type: none"> <li>Check to see if the unit is in EASY DEHUMIDIFYING, MILDEWGUARD, or AUTO. → The unit is automatically controlling the dehumidifier, fan, and standby times.</li> </ul>
	<ul style="list-style-type: none"> <li>Check to see if the water tank is full. → Empty the water tank and return it to its original position.</li> <li>Check to see if the water tank is inserted properly. → Adjust the position of the water tank.</li> </ul>
	<ul style="list-style-type: none"> <li>Check to see if the unit is in defrosting mode. The unit activates defrosting mode when the room temperature drops below 15°C. The dehumidifier and blower functions stop during defrosting.</li> </ul>
The unit continues to operate even though it is turned off	<ul style="list-style-type: none"> <li>Is the unit set to internal drying mode? This function activates automatically after ending operations.</li> </ul>
The humidity level does not reach the level set	<ul style="list-style-type: none"> <li>Check to see if the room is not too large.</li> <li>Check to see if the exits to the room are open. → Refrain from opening doors/windows during operation.</li> <li>Check to see if steam producing appliances such as kerosene heaters are on in the vicinity.</li> </ul>
The hygrometer reading on the unit differs from other hygrometers in the room	<ul style="list-style-type: none"> <li>Hygrometer readings differ from place to place even if in the same room. Use the unit humidity reading as an estimate.</li> </ul>
The louvre does not move as set	<ul style="list-style-type: none"> <li>Press the Swing louvre switch again.</li> </ul>
The water tank contains liquid or white water residue	<ul style="list-style-type: none"> <li>The residue is from final product testing at the factory. It is not a result of a malfunction.</li> </ul>
There is black residue on the inside of the water tank and lid.	<ul style="list-style-type: none"> <li>The residue is from debris in the air. → Clean according to the maintenance procedures.</li> </ul>

Symptom		Cause/Remedy
The unit makes noises	The operating noise is loud/reverberates	<ul style="list-style-type: none"> <li>Check to see if the unit is on a slope or uneven surface. → Move to a sturdy even surface.</li> <li>Check to see if the pre-filter is clogged. → Clean according to the maintenance procedures</li> <li>Operating the unit in small rooms or in tight spaces sometimes causes the sound to reverberate. → Place a mat underneath the unit.</li> </ul>
	The operating sound suddenly increases in volume	<ul style="list-style-type: none"> <li>The sound increases when the compressor activates (3 minutes after turning on the unit or during Easy dehumidifying and Automatic modes).</li> </ul>
	The wind sound changes in volume	<ul style="list-style-type: none"> <li>The volume of the sound differs depending on the angle of the louvre.</li> </ul>
	The unit produces a simmering sound	<ul style="list-style-type: none"> <li>This is the sound of the refrigerant. The sound can be heard while the refrigerant stabilizes after the unit turns on, changes modes, or stops.</li> </ul>
	The unit produces a buzz that sounds intermittently (or the compressor does not activate)	<ul style="list-style-type: none"> <li>This is the sound of the compressor. In modes that monitor the humidity level, or during drying inside the compressor operates intermittently causing the sound to be heard occasionally. The compressor does not activate after turning the unit off, or for 3 minutes after plugging the unit into a power socket. (This is to protect the compressor from damage.)</li> </ul>
The unit produces an odour	When first used	<ul style="list-style-type: none"> <li>The heat converter heats rapidly causing a brief odour. This is not a malfunction.</li> </ul>
	During internal drying	<ul style="list-style-type: none"> <li>The moisture expelled from inside the unit may smell due to odorants that were not caught by the photocatalytic filter dissolving in the water. This is not a malfunction.</li> </ul>

● Error message (Humidity indicator)

Digital display	Cause/Remedy
<i>A2</i> or <i>A3</i> is displayed	<ul style="list-style-type: none"> <li>Check to see if the power cord is plugged into the power socket properly. → Plug the power cord into the power socket properly.</li> </ul>
<i>P4</i> is displayed	<ul style="list-style-type: none"> <li>Check to see if anything is blocking the air outlet. → Remove the obstruction, and plug the power cord into the power socket again.</li> <li>Check to see if the pre-filter is clogged. → Clean according to the maintenance procedures.</li> </ul>
<i>A1 A6 E0 - E8</i> appears	<ul style="list-style-type: none"> <li><b>Malfunction</b> → Take note of error message, unplug the power cord, and contact the place of purchase.</li> </ul>

If the symptoms persist even after following the prescribed remedies, or the error message does not disappear, unplug the power cord, and contact the place of purchase.

# Precautions

The following diagrams indicate circumstances where danger can result from mishandling the unit.

Meanings of the graphic symbols used in this manual and on the unit are explained below.



## WARNING

Mishandling may result in fatal or serious injuries.



## CAUTION

Mishandling may result in injuries or damage to your home or property, etc.



Forbidden



Do not disassemble



Keep away from fire



Do not subject to water



Always follow the instructions



## WARNING

**Do not start/stop the unit by plugging/unplugging the power cord.**



This may result in **fire and/or electric shock**.

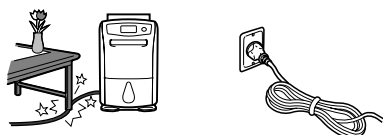
**Do not use extension cords or multiple head adapters.**



This may result in **fire, electric shock or malfunctions**.

**Do not damage or modify the power cord or plug.**

Do not modify, bundle, twist, bend or heat the power cord. Do not place under objects or use with the end close to the plug bent.



The cord may be damaged resulting in **fire or electric shock**. (Keep pets from biting the cord.)

**Do not put your fingers or any long object, into the air intake/outlet. Do not touch the swing louvre.**



The internal fan rotates at high speeds, and such actions may result in **injury or malfunctions**.

**Do not attempt to repair, disassemble, or modify the unit.**



This may result in **fire and/or electric shock**. Refer servicing to your dealer or Mitsubishi Electric Service Centre.

**Do not put the unit near heat-generating devices (such as stoves, fan heaters, etc.).**



The plastic parts may **melt and cause fire**.

**Wipe dust off the power plug and insert the plug firmly.**



If the plug is not fully inserted into the socket, dust may gather on the connectors which may cause **fire and/or electric shock**.

**Use 230-240V AC power sockets.**

Connecting to power sockets other than 230-240V AC may result in **fire and/or electric shock**.

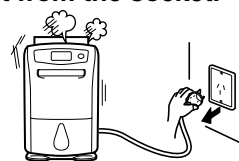


**Remove water that has collected in the tank.**



Accidentally drinking the water or using it for other purposes may cause **illness and/or unforeseen accidents**.

**Should abnormal symptoms occur (a burning smell, etc.), switch off the unit and unplug it from the socket.**



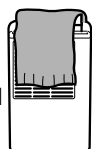
Continuing to operate the unit may result in **fire, electric shock, or malfunctions**. Contact your dealer or Mitsubishi Electric Service Centre for consultation.



## CAUTION

**Do not cover the front or side air intakes or the air outlet with cloth, curtain, etc.**

This results in poor ventilation and may cause **heat generation/fire**.



**Do not stand on, sit on or lean against the unit. Do not pull the unit by the air outlet.**

As the unit is on wheels, it may move, tip over, or fall causing personal injury.



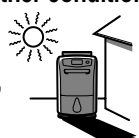
**Do not put vases or any other objects filled with water on the unit.**

Water may leak into the unit adversely affecting electric insulation and cause **electric shock and/or fire by short-circuiting**.



**Do not use the unit where it may be exposed to direct sunlight or other weather conditions. (This unit is for indoor use only.)**

This may cause **overheating, electric shock and/or fire caused by an electric leak**.



**Do not use the unit in narrow, enclosed places such as inside closets, between pieces of furniture, etc.**

This results in poor ventilation and may cause **heat generation and/or fire**.



**Do not use combustion appliances in the path of the air outlet.**

This may cause **incomplete combustion** in the appliance.



**Do not use the unit in places where chemicals are used (such as hospitals, factories, laboratories or beauty salons).**

Chemicals and solvents evaporated in the air may harm the unit and cause water in the tank to leak, **resulting in damage to property**.



**Do not use the unit for special purposes, such as preservation of food, art or scientific works.**

This may negatively affect the quality of the items stored.



**Do not drain water continuously if there is a possibility that temperature around the hose could drop to freezing point.**

Water inside the hose may freeze and prevent the water in the tank from flowing out. The water may leak from the unit and **damage surrounding objects**.

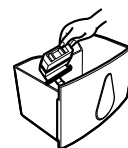


**Do not use the unit in places that may be subject to oil or flammable gas leakage.**

Such a leak around the unit may cause **combustion and fire**.



**Do not remove the Styrofoam from the floating element.**



The floating element will not be able to detect a full tank resulting in water leakage, which may **damage surrounding objects or cause electric shock and/or an electric leak**.

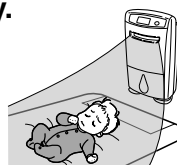
**Do not wash the unit with water. Do not use the unit where it is likely to come in contact with water.**



Exposure to water may result in **fire or electric shock caused by an electric leak**.

**Do not point air-flow from the unit directly at the body.**

If air-flow is directed at the body for long periods, it may **harm one's physical condition and lead to dehydration**.



**Install the unit in a location where the floor is flat and stable.**

If the unit falls over, the water collected in the water tank may leak damaging surrounding objects and in turn result in **fire or electric shock caused by an electrical leak**.



**Grasp the plug and remove from the power socket.**



When removing the plug from the power socket, do not pull on it diagonally or by the cord as this may cause the projections/wiring to be **damaged resulting in a short circuit, electric shock or fire**.

**Before moving the unit always switch it off, unplug it and remove water from the water tank.**

Moving the unit with water in its tank may cause the water to leak and **damage the surrounding objects and in turn result in electric shock and/or an electric leak**.



## Precautions (cont.)



### CAUTION

**After emptying the tank, transport the unit by grasping the handle firmly.**

Losing your footing while carrying the unit may cause **personal injury or damage to the floor.**



**When using the continuous drainage outlet, make sure to position the hose so that the water drains without obstruction.**

The water in the tank may leak and **damage surrounding objects.**



**When draining water continuously or left unattended for long periods, inspect the unit every two weeks.**

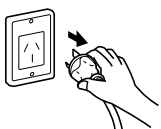
Do not allow debris to clog the filter/hose as this may cause **over-heating/leakage.**



**Use the unit with caution in rooms where the walls, furniture and art work are vulnerable to dry air, as it may cause cracks and warping.**



**Switch the unit off and unplug from the power source when cleaning it.**



When the unit is on, the internal fan rotates at high speeds and may cause **injury.**

**Unplug the unit from the power source when not using the unit for an extended period of time.**

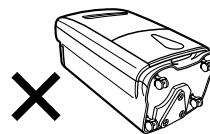


Otherwise it may cause **fire and/or electric shock caused by an electric leak.**

## Warning

- **Keep the unit always in an upright position.** Inclining the unit may cause water in the tank to leak into the unit, **resulting in malfunction.** Should you incline the unit accidentally, contact the place of purchase for advice.

- Damage to the dehumidifier caused by atmospheric conditions (ie. Salt or Sulphur) will not be covered under warranty.



- **Do not carry the unit horizontally.** This may **result in malfunctions.** Such malfunctions are NOT covered under warranty.

- The appliance is not intended for use by young children or infirm persons without supervision.
- Young children should be supervised to ensure that they do not play with appliance.



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